

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116137	Strand	-
Start	18798	End	19548
Name	OJ000323_38.0418.C14.o2.tc	Method	TBLASTX:Cress
Start	17284	End	17482
GI	none	Score	267
Exons	17284..17376, 17285..17482		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116137	Strand	-
Start	18798	End	19548
Name	OJ000323_38.0418.C14.o2.tw	Method	TBLASTX:Wheat
Start	17284	End	17506
GI	none	Score	279
Exons	17284..17367, 17285..17506, 17419..17475		

Seq. No.	55429	Seq. ID	OJ000323_38.0418.C14
Gene No.	116137	Strand	-
Start	18798	End	19548
Name	OJ000323_38.0418.C14.o6.gs	Method	GENSCAN
Start	18798	End	19548
GI	none	Score	.65
Exons	18798..18868, 19171..19270, 19493..19548		

Seq. No.	55430	Seq. ID	OJ000323_38.0418.C15
Gene No.	116138	Strand	+
Start	845	End	2522
Name	OJ000323_38.0418.C15.o1.gs	Method	GENSCAN
Start	845	End	2522
GI	none	Score	.44
Exons	845..860, 1005..1094, 2464..2522		

Seq. No.	55430	Seq. ID	OJ000323_38.0418.C15
Gene No.	116139	Strand	+
Start	3225	End	5719
Name	OJ000323_38.0418.C15.o1.np	Method	AAT/NAP
Start	3225	End	5716
GI	5302801	Score	229
Exons	3225..3251, 4407..5220, 5251..5350, 5400..5716		
GI Descrip.	(297342) glycoprotein homolog [Arabidopsis thaliana]		

Seq. No.	55430	Seq. ID	OJ000323_38.0418.C15
Gene No.	116139	Strand	+
Start	3225	End	5719
Name	OJ000323_38.0418.C15.o1.gp	Method	AAT/GAP
Start	4011	End	4360
GI	2280662	Score	665
Exons	4011..4360		

Seq. No.	55430	Seq. ID	OJ000323_38.0418.C15
Gene No.	116139	Strand	+
Start	3225	End	5719
Name	OJ000323_38.0418.C15.o2.gs	Method	GENSCAN
Start	4245	End	5719
GI	none	Score	.95
Exons	4245..5013, 5052..5719		

Seq. No.	55431	Seq. ID	OJ000323_38.0418.C16
Gene No.	116140	Strand	+
Start	1	End	3179
Name	OJ000323_38.0418.C16.o1.np	Method	AAT/NAP
Start	1	End	3179
GI	4263787	Score	459
Exons	1..28, 393..514, 640..771, 910..1035, 1796..1889, 2417..2499, 2581..2670, 3161..3179		
GI Descrip.	(AC006068) unknown protein [Arabidopsis thaliana]		

Seq. No.	55431	Seq. ID	OJ000323_38.0418.C16
Gene No.	116140	Strand	+
Start	1	End	3179
Name	OJ000323_38.0418.C16.o1.tm	Method	TBLASTX:Maize
Start	210	End	2670
GI	none	Score	209
Exons	210..266, 367..507, 389..508, 907..1035, 912..1034, 1795..1890, 1796..1888, 2415..2465, 2418..2474, 2419..2475, 2569..2670, 2580..2669, 2581..2670		

Seq. No.	55431	Seq. ID	OJ000323_38.0418.C16
Gene No.	116140	Strand	+
Start	1	End	3179
Name	OJ000323_38.0418.C16.o1.gs	Method	GENSCAN
Start	233	End	2670
GI	none	Score	.7
Exons	233..508, 913..1035, 1796..1889, 2375..2499, 2581..2670		

Seq. No.	55431	Seq. ID	OJ000323_38.0418.C16
Gene No.	116140	Strand	+
Start	1	End	3179
Name	OJ000323_38.0418.C16.o1.tw	Method	TBLASTX:Wheat
Start	912	End	2667
GI	none	Score	173
Exons	912..1034, 913..1035, 913..1035, 1795..1890, 1796..1888, 2297..2500, 2415..2507, 2418..2501, 2568..2663, 2569..2664, 2580..2663, 2581..2667, 2582..2665		

Seq. No.	55431	Seq. ID	OJ000323_38.0418.C16
Gene No.	116140	Strand	+
Start	1	End	3179
Name	OJ000323_38.0418.C16.o1.gp	Method	AAT/GAP
Start	988	End	2670
GI	6990_1.R1084	Score	565
Exons	988..1035, 1796..1889, 2417..2499, 2581..2670		
GI Descrip.	'4263787/gb AAD15447 1.0e-45 (AC006068) unknown protein [Arabidopsis thaliana]'		

Seq. No.	55432	Seq. ID	OJ000323_38.0418.C17
Gene No.	116141	Strand	+
Start	1	End	122
Name	OJ000323_38.0418.C17.o1.gp	Method	AAT/GAP
Start	1	End	122
GI	6990_1.R1084	Score	244
Exons	1..122		
GI Descrip.	'4263787/gb AAD15447 1.0e-45 (AC006068) unknown protein		

[Arabidopsis thaliana]

Seq. No.	55432	Seq. ID	OJ000323_38.0418.C17
Gene No.	116142	Strand	+
Start	1155	End	1866
Name	OJ000323_38.0418.C17.o1.tm	Method	TBLASTX:Maize
Start	2	End	429
GI	none	Score	101
Exons	2..106, 9..95, 140..253, 147..242, 148..246, 192..260, 343..384, 344..385, 349..387, 384..428, 388..429		

Seq. No.	55432	Seq. ID	OJ000323_38.0418.C17
Gene No.	116142	Strand	+
Start	1155	End	1866
Name	OJ000323_38.0418.C17.o1.gs	Method	GENSCAN
Start	1155	End	1866
GI	none	Score	.56
Exons	1155..1358, 1670..1866		

Seq. No.	55433	Seq. ID	OJ000323_38.0418.C18
Gene No.	116143	Strand	+
Start	8240	End	8489
Name	OJ000323_38.0418.C18.o2.gs	Method	GENSCAN
Start	8240	End	8489
GI	none	Score	.4
Exons	8240..8346, 8390..8489		

Seq. No.	55433	Seq. ID	OJ000323_38.0418.C18
Gene No.	116144	Strand	-
Start	5047	End	6506
Name	OJ000323_38.0418.C18.o1.gp	Method	AAT/GAP
Start	5047	End	6506
GI	268_2.R1084	Score	2454
Exons	5047..5709, 5805..6146, 6235..6506		
GI Descrip.	'1235565/emb CAA65456 9.0e-98 (X96681) DNA-binding protein [Oryza sativa]'		

Seq. No.	55433	Seq. ID	OJ000323_38.0418.C18
Gene No.	116144	Strand	-
Start	5047	End	6506
Name	OJ000323_38.0418.C18.o1.np	Method	AAT/NAP
Start	5321	End	6442
GI	7446297	Score	1513
Exons	5321..5709, 5805..6146, 6235..6442		
GI Descrip.	DNA-binding homeotic protein - rice (fragment)		

Seq. No.	55433	Seq. ID	OJ000323_38.0418.C18
Gene No.	116144	Strand	-
Start	5047	End	6506
Name	OJ000323_38.0418.C18.o1.tc	Method	TBLASTX:Cress
Start	5405	End	5881
GI	none	Score	83
Exons	5405..5464, 5406..5465, 5531..5584, 5587..5718, 5630..5710, 5796..5840, 5806..5850, 5840..5881		

Seq. No.	55433	Seq. ID	OJ000323_38.0418.C18
Gene No.	116144	Strand	-

Start	5047	End	6506
Name	OJ000323_38.0418.C18.o1.ts	Method	TBLASTX:Soybean
Start	5420	End	5881
GI	none	Score	70
Exons	5420..5473, 5421..5465, 5531..5584, 5587..5709, 5630..5710, 5784..5840, 5797..5841, 5840..5881		

Seq. No.	55433	Seq. ID	OJ000323_38.0418.C18
Gene No.	116144	Strand	-
Start	5047	End	6506
Name	OJ000323_38.0418.C18.o1.tm	Method	TBLASTX:Maize
Start	5531	End	5715
GI	none	Score	117
Exons	5531..5584, 5587..5715, 5630..5710		

Seq. No.	55434	Seq. ID	OJ000323_38.0418.C20
Gene No.	116145	Strand	+
Start	394	End	454
Name	OJ000323_38.0418.C20.o1.gs	Method	GENSCAN
Start	394	End	454
GI	none	Score	.73
Exons	394..454		

Seq. No.	55435	Seq. ID	OJ000323_38.0418.C23
Gene No.	116146	Strand	+
Start	142	End	411
Name	OJ000323_38.0418.C23.o1.gs	Method	GENSCAN
Start	142	End	411
GI	none	Score	.8
Exons	142..411		

Seq. No.	55436	Seq. ID	OJ000323_38.0418.C24
Gene No.	116147	Strand	+
Start	129	End	667
Name	OJ000323_38.0418.C24.o1.gs	Method	GENSCAN
Start	129	End	667
GI	none	Score	.93
Exons	129..222, 537..667		

Seq. No.	55436	Seq. ID	OJ000323_38.0418.C24
Gene No.	116148	Strand	+
Start	1549	End	1949
Name	OJ000323_38.0418.C24.o1.gp	Method	AAT/GAP
Start	1549	End	1949
GI	3763039	Score	682
Exons	1549..1949		

Seq. No.	55436	Seq. ID	OJ000323_38.0418.C24
Gene No.	116149	Strand	-
Start	1295	End	2208
Name	OJ000323_38.0418.C24.o2.gs	Method	GENSCAN
Start	1295	End	2008
GI	none	Score	.66
Exons	1295..1480, 1697..2008		

Seq. No.	55436	Seq. ID	OJ000323_38.0418.C24
Gene No.	116149	Strand	-

Start	1295	End	2208
Name	OJ000323_38.0418.C24.o1.np	Method	AAT/NAP
Start	1304	End	2208
GI	7488187	Score	572
Exons	1304..1480, 1697..2208		
GI Descrip.	probable serine/threonine-specific protein kinase (EC 2.7.1.-) F13M23.300 - Arabidopsis thaliana gi 4455259 emb CAB36758.1 (AL035523) putative Ser/Thr protein kinase [Arabidopsis thaliana] gi 7269366 emb CAB79425.1 (AL161562) putative Ser/Thr protein kinase [Arabidopsis thaliana]		

Seq. No.	55436	Seq. ID	OJ000323_38.0418.C24
Gene No.	116149	Strand	-
Start	1295	End	2208
Name	OJ000323_38.0418.C24.o1.ts	Method	TBLASTX:Soybean
Start	1697	End	2033
GI	none	Score	45
Exons	1697..1735, 1701..1739, 1772..2032, 1779..2033		

Seq. No.	55436	Seq. ID	OJ000323_38.0418.C24
Gene No.	116149	Strand	-
Start	1295	End	2208
Name	OJ000323_38.0418.C24.o1.tm	Method	TBLASTX:Maize
Start	1763	End	2194
GI	none	Score	170
Exons	1763..2113, 1776..2102, 2114..2194		

Seq. No.	55436	Seq. ID	OJ000323_38.0418.C24
Gene No.	116149	Strand	-
Start	1295	End	2208
Name	OJ000323_38.0418.C24.o1.tc	Method	TBLASTX:Cress
Start	1772	End	2026
GI	none	Score	220
Exons	1772..2026		

Seq. No.	55437	Seq. ID	OJ000323_38.0418.C25
Gene No.	116150	Strand	-
Start	1	End	3119
Name	OJ000323_38.0418.C25.o1.np	Method	AAT/NAP
Start	1	End	3119
GI	7488187	Score	344
Exons	1..21, 96..529, 625..782, 896..1204, 1353..1613, 1704..1862, 2344..2503, 3077..3119		
GI Descrip.	probable serine/threonine-specific protein kinase (EC 2.7.1.-) F13M23.300 - Arabidopsis thaliana gi 4455259 emb CAB36758.1 (AL035523) putative Ser/Thr protein kinase [Arabidopsis thaliana] gi 7269366 emb CAB79425.1 (AL161562) putative Ser/Thr protein kinase [Arabidopsis thaliana]		

Seq. No.	55437	Seq. ID	OJ000323_38.0418.C25
Gene No.	116150	Strand	-
Start	1	End	3119
Name	OJ000323_38.0418.C25.o1.gs	Method	GENSCAN
Start	17	End	3066
GI	none	Score	.83
Exons	17..529, 625..726, 902..995, 1731..1852, 2127..2245, 2348..2463, 3030..3066		

Seq. No.	55437	Seq. ID	OJ000323_38.0418.C25
Gene No.	116150	Strand	-
Start	1	End	3119
Name	OJ000323_38.0418.C25.o1.ts	Method	TBLASTX:Soybean
Start	117	End	478
GI	none	Score	134
Exons	117..389, 140..478		

Seq. No.	55438	Seq. ID	OJ000323_38.0418.C26
Gene No.	116151	Strand	+
Start	4290	End	4756
Name	OJ000323_38.0418.C26.o1.gp	Method	AAT/GAP
Start	3989	End	4448
GI	6098_1.R1084	Score	822
Exons	3989..4448		
GI Descrip.	'1076660/pir S51839 6.0e-32 D13F(MYBST1) protein - potato >gi_786426_bbs_159122 (S74753) MybSt1=Myb-related transcriptional activator {DNA-binding domain repeats} [Solanum tuberosum=potatoes, leaf, Peptide, 342 aa] [Solanum tuberosum]'		

Seq. No.	55438	Seq. ID	OJ000323_38.0418.C26
Gene No.	116151	Strand	+
Start	4290	End	4756
Name	OJ000323_38.0418.C26.o1.np	Method	AAT/NAP
Start	4170	End	4454
GI	1076660	Score	245
Exons	4170..4454		
GI Descrip.	D13F(MYBST1) protein - potato gi 786426 bbs 159122 (S74753) MybSt1=Myb-related transcriptional activator {DNA-binding domain repeats} [Solanum tuberosum=potatoes, leaf, Peptide, 342 aa] [Solanum tuberosum]		

Seq. No.	55438	Seq. ID	OJ000323_38.0418.C26
Gene No.	116151	Strand	+
Start	4290	End	4756
Name	OJ000323_38.0418.C26.o2.gs	Method	GENSCAN
Start	4290	End	4756
GI	none	Score	.89
Exons	4290..4446, 4602..4756		

Seq. No.	55438	Seq. ID	OJ000323_38.0418.C26
Gene No.	116152	Strand	-
Start	1775	End	2366
Name	OJ000323_38.0418.C26.o1.gs	Method	GENSCAN
Start	1775	End	2366
GI	none	Score	.44
Exons	1775..1969, 2160..2366		

Seq. No.	55438	Seq. ID	OJ000323_38.0418.C26
Gene No.	116153	Strand	
Start	4169	End	4448
Name	OJ000323_38.0418.C26.o1.tc	Method	TBLASTX:Cress
Start	4169	End	4300
GI	none	Score	199
Exons	4169..4300, 4170..4280		

Seq. No.	55438	Seq. ID	OJ000323_38.0418.C26
Gene No.	116153	Strand	
Start	4169	End	4448
Name	OJ000323_38.0418.C26.ol.tm	Method	TBLASTX:Maize
Start	4169	End	4448
GI	none	Score	194
Exons	4169..4318, 4170..4271, 4271..4297, 4401..4448, 4403..4447		

Seq. No.	55438	Seq. ID	OJ000323_38.0418.C26
Gene No.	116153	Strand	
Start	4169	End	4448
Name	OJ000323_38.0418.C26.ol.ts	Method	TBLASTX:Soybean
Start	4169	End	4448
GI	none	Score	206
Exons	4169..4300, 4170..4280, 4401..4448, 4403..4447		

Seq. No.	55439	Seq. ID	OJ000323_38.0418.C27
Gene No.	116154	Strand	+
Start	308	End	1294
Name	OJ000323_38.0418.C27.ol.gs	Method	GENSCAN
Start	308	End	1265
GI	none	Score	.79
Exons	308..515, 795..1265		

Seq. No.	55439	Seq. ID	OJ000323_38.0418.C27
Gene No.	116154	Strand	+
Start	308	End	1294
Name	OJ000323_38.0418.C27.ol.np	Method	AAT/NAP
Start	317	End	1294
GI	1076660	Score	506
Exons	317..515, 758..1294		
GI Descrip.	D13F(MYBST1) protein - potato gi 786426 bbs 159122 (S74753) MybSt1=Myb-related transcriptional activator {DNA-binding domain repeats} [Solanum tuberosum=potatoes, leaf, Peptide, 342 aa] [Solanum tuberosum]		

Seq. No.	55439	Seq. ID	OJ000323_38.0418.C27
Gene No.	116155	Strand	-
Start	306	End	421
Name	OJ000323_38.0418.C27.ol.gp	Method	AAT/GAP
Start	306	End	421
GI	6098_1.R1084	Score	167
Exons	306..421		
GI Descrip.	'1076660/pir S51839 6.0e-32 D13F(MYBST1) protein - potato >gi_786426_bbs_159122 (S74753) MybSt1=Myb-related transcriptional activator {DNA-binding domain repeats} [Solanum tuberosum=potatoes, leaf, Peptide, 342 aa] [Solanum tuberosum]'		

Seq. No.	55439	Seq. ID	OJ000323_38.0418.C27
Gene No.	116156	Strand	-
Start	816	End	1310
Name	OJ000323_38.0418.C27.ol.tc	Method	TBLASTX:Cress
Start	170	End	1244
GI	none	Score	37
Exons	170..196, 318..374, 329..373, 375..521, 378..518, 960..1031, 1062..1211, 1062..1172, 1064..1210, 1184..1210, 1206..1244		

Seq. No.	55439	Seq. ID	OJ000323_38.0418.C27
Gene No.	116156	Strand	-
Start	816	End	1310
Name	OJ000323_38.0418.C27.o1.tw	Method	TBLASTX:Wheat
Start	312	End	515
GI	none	Score	295
Exons	312..515, 321..506, 329..514		
Seq. No.	55439	Seq. ID	OJ000323_38.0418.C27
Gene No.	116156	Strand	-
Start	816	End	1310
Name	OJ000323_38.0418.C27.o1.tm	Method	TBLASTX:Maize
Start	313	End	1268
GI	none	Score	268
Exons	313..513, 314..508, 318..515, 318..515, 792..884, 792..836, 867..1262, 888..1202, 907..1206, 908..1252, 1208..1267, 1209..1268		
Seq. No.	55439	Seq. ID	OJ000323_38.0418.C27
Gene No.	116156	Strand	-
Start	816	End	1310
Name	OJ000323_38.0418.C27.o1.ts	Method	TBLASTX:Soybean
Start	318	End	1247
GI	none	Score	314
Exons	318..512, 319..513, 329..454, 1071..1163, 1076..1159, 1169..1246, 1188..1247		
Seq. No.	55439	Seq. ID	OJ000323_38.0418.C27
Gene No.	116156	Strand	-
Start	816	End	1310
Name	OJ000323_38.0418.C27.o2.gp	Method	AAT/GAP
Start	816	End	1310
GI	4371_1.R1084	Score	935
Exons	816..1310		
GI Descrip.	'2344894 2.0e-17 (AC002388) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	55440	Seq. ID	OJ000323_39.0419.C1
Gene No.	116157	Strand	-
Start	2270	End	5894
Name	OJ000323_39.0419.C1.o1.np	Method	AAT/NAP
Start	813	End	5894
GI	7546702	Score	134
Exons	813..886, 1470..1597, 2426..2645, 2777..3200, 3837..3889, 5866..5894		
GI Descrip.	(AL163652) putative protein [Arabidopsis thaliana]		
Seq. No.	55440	Seq. ID	OJ000323_39.0419.C1
Gene No.	116157	Strand	-
Start	2270	End	5894
Name	OJ000323_39.0419.C1.o1.gs	Method	GENSCAN
Start	2270	End	4165
GI	none	Score	.91
Exons	2270..2920, 3027..3200, 3837..4165		
Seq. No.	55440	Seq. ID	OJ000323_39.0419.C1
Gene No.	116157	Strand	-

Start	2270	End	5894
Name	OJ000323_39.0419.C1.o1.gp	Method	AAT/GAP
Start	2796	End	3876
GI	426301	Score	583
Exons	2796..2920, 3027..3200, 3837..3876		

Seq. No.	55441	Seq. ID	OJ000323_39.0419.C2
Gene No.	116158	Strand	+
Start	1610	End	3462
Name	OJ000323_39.0419.C2.o2.np	Method	AAT/NAP
Start	1610	End	3462
GI	5852093	Score	44
Exons	1610..1734, 3331..3462		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	55441	Seq. ID	OJ000323_39.0419.C2
Gene No.	116159	Strand	-
Start	1	End	1117
Name	OJ000323_39.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	1117
GI	5852093	Score	59
Exons	1..28, 1011..1117		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	55442	Seq. ID	OJ000323_39.0419.C3
Gene No.	116160	Strand	-
Start	23	End	2884
Name	OJ000323_39.0419.C3.o1.gs	Method	GENSCAN
Start	23	End	2884
GI	none	Score	.56
Exons	23..155, 467..586, 779..856, 931..1092, 1153..1294, 1600..1715, 2817..2884		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116161	Strand	+
Start	1014	End	6909
Name	OJ000323_39.0419.C4.o1.np	Method	AAT/NAP
Start	1014	End	5588
GI	4680179	Score	6605
Exons	1014..5588		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116161	Strand	+
Start	1014	End	6909
Name	OJ000323_39.0419.C4.o1.gs	Method	GENSCAN
Start	1017	End	6909
GI	none	Score	.55
Exons	1017..5574, 5997..6106, 6432..6545, 6637..6720, 6766..6909		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o7.tw	Method	TBLASTX:Wheat
Start	1283	End	1646
GI	none	Score	291
Exons	1283..1387, 1287..1646, 1412..1645		

Seq. No. 55443
 Gene No. 116162
 Start 5862
 Name OJ000323_39.0419.C4.o8.tm
 Start 1527
 GI none
 Exons 1527..1823, 1544..1714

Seq. ID OJ000323_39.0419.C4
 Strand -
 End 9400
 Method TBLASTX:Maize
 End 1823
 Score 197

Seq. No. 55443
 Gene No. 116162
 Start 5862
 Name OJ000323_39.0419.C4.o6.tm
 Start 2169
 GI none
 Exons 2169..2489

Seq. ID OJ000323_39.0419.C4
 Strand -
 End 9400
 Method TBLASTX:Maize
 End 2489
 Score 209

Seq. No. 55443
 Gene No. 116162
 Start 5862
 Name OJ000323_39.0419.C4.o8.tw
 Start 2222
 GI none
 Exons 2222..2362, 2223..2576, 2406..2540

Seq. ID OJ000323_39.0419.C4
 Strand -
 End 9400
 Method TBLASTX:Wheat
 End 2576
 Score 262

Seq. No. 55443
 Gene No. 116162
 Start 5862
 Name OJ000323_39.0419.C4.o4.tw
 Start 2747
 GI none
 Exons 2747..3190, 2751..3233

Seq. ID OJ000323_39.0419.C4
 Strand -
 End 9400
 Method TBLASTX:Wheat
 End 3233
 Score 546

Seq. No. 55443
 Gene No. 116162
 Start 5862
 Name OJ000323_39.0419.C4.o4.tm
 Start 2816
 GI none
 Exons 2816..3061, 2820..3287, 2910..3254

Seq. ID OJ000323_39.0419.C4
 Strand -
 End 9400
 Method TBLASTX:Maize
 End 3287
 Score 385

Seq. No. 55443
 Gene No. 116162
 Start 5862
 Name OJ000323_39.0419.C4.o4.ts
 Start 2820
 GI none
 Exons 2820..3101

Seq. ID OJ000323_39.0419.C4
 Strand -
 End 9400
 Method TBLASTX:Soybean
 End 3101
 Score 183

Seq. No. 55443
 Gene No. 116162
 Start 5862
 Name OJ000323_39.0419.C4.o1.ts
 Start 3174
 GI none
 Exons 3174..3206, 3174..3206, 3210..3569, 3213..3287, 3217..3570, 3217..3351, 3326..3568

Seq. ID OJ000323_39.0419.C4
 Strand -
 End 9400
 Method TBLASTX:Soybean
 End 3570
 Score 57

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o5.tw	Method	TBLASTX:Wheat
Start	3282	End	3584
GI	none	Score	397
Exons	3282..3584, 3320..3583		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o5.tm	Method	TBLASTX:Maize
Start	3303	End	3656
GI	none	Score	325
Exons	3303..3656, 3314..3574		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	3585	End	4094
GI	none	Score	644
Exons	3585..4094, 3617..4003		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o3.ts	Method	TBLASTX:Soybean
Start	3594	End	3836
GI	none	Score	197
Exons	3594..3836		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	3657	End	4010
GI	none	Score	483
Exons	3657..4010, 3659..3925, 3699..3995		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o3.tw	Method	TBLASTX:Wheat
Start	4098	End	4577
GI	none	Score	590
Exons	4098..4577, 4116..4529, 4193..4576		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	4275	End	4601
GI	none	Score	90
Exons	4275..4457, 4458..4601, 4523..4600		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	4365	End	4625
GI	none	Score	299
Exons	4365..4625, 4370..4471, 4557..4625		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	4423	End	4715
GI	none	Score	390
Exons	4423..4614, 4425..4715, 4494..4706, 4526..4711		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	4584	End	5210
GI	none	Score	661
Exons	4584..5210, 4640..5209		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	4764	End	5351
GI	none	Score	226
Exons	4764..4925, 4770..4916, 4772..4918, 4923..5021, 4925..5020, 5082..5351, 5090..5350		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o6.tw	Method	TBLASTX:Wheat
Start	5210	End	5543
GI	none	Score	360
Exons	5210..5479, 5211..5543		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o7.tm	Method	TBLASTX:Maize
Start	5352	End	5596
GI	none	Score	197
Exons	5352..5564, 5384..5473, 5534..5596		

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o2.np	Method	AAT/NAP
Start	5862	End	8521
GI	5295955	Score	757
Exons	5862..6447, 6487..6562, 6642..7063, 7744..7858, 8401..8521		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555)		

[Oryza sativa]

Seq. No.	55443	Seq. ID	OJ000323_39.0419.C4
Gene No.	116162	Strand	-
Start	5862	End	9400
Name	OJ000323_39.0419.C4.o2.gs	Method	GENSCAN
Start	7239	End	9400
GI	none	Score	.66
Exons	7239..7327, 7735..7858, 8333..8470, 8997..9124, 9319..9400		

Seq. No.	55444	Seq. ID	OJ000323_39.0419.C5
Gene No.	116163	Strand	+
Start	624	End	2386
Name	OJ000323_39.0419.C5.o1.gs	Method	GENSCAN
Start	624	End	2386
GI	none	Score	.77
Exons	624..690, 785..908, 1698..1814, 2247..2386		

Seq. No.	55445	Seq. ID	OJ000323_39.0419.C6
Gene No.	116164	Strand	+
Start	643	End	1080
Name	OJ000323_39.0419.C6.o1.gp	Method	AAT/GAP
Start	643	End	1080
GI	none	Score	861
Exons	643..1080		

Seq. No.	55445	Seq. ID	OJ000323_39.0419.C6
Gene No.	116165	Strand	-
Start	726	End	1058
Name	OJ000323_39.0419.C6.o1.gs	Method	GENSCAN
Start	726	End	1058
GI	none	Score	.99
Exons	726..1058		

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116166	Strand	+
Start	193	End	1048
Name	OJ000323_39.0419.C7.o1.gs	Method	GENSCAN
Start	193	End	1048
GI	none	Score	.69
Exons	193..550, 647..1048		

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116167	Strand	-
Start	2479	End	6126
Name	OJ000323_39.0419.C7.o2.tc	Method	TBLASTX:Cress
Start	274	End	1044
GI	none	Score	80
Exons	274..324, 275..340, 335..592, 364..513, 782..817, 787..831, 788..832, 889..1038, 890..1009, 932..1039, 934..1044		

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116167	Strand	-
Start	2479	End	6126
Name	OJ000323_39.0419.C7.o1.gp	Method	AAT/GAP
Start	2302	End	2914
GI	uC-osf1M2020114f06a1	Score	990

Exons 2302..2700, 2789..2914
 GI Descrip. '3643607 3.0e-18 (AC005395) unknown protein [Arabidopsis thaliana]'

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116167	Strand	-
Start	2479	End	6126
Name	OJ000323_39.0419.C7.o2.gs	Method	GENSCAN
Start	2479	End	5203
GI	none	Score	.89
Exons	2479..2640, 2789..2977, 3056..3213, 3301..3391, 3530..3704, 3807..3946, 4035..4253, 4331..4460, 4905..4971, 5089..5203		

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116167	Strand	-
Start	2479	End	6126
Name	OJ000323_39.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	2641	End	5787
GI	none	Score	64
Exons	2641..2706, 2641..2703, 2643..2714, 2787..2990, 2787..2978, 2788..2994, 2789..2989, 3048..3215, 3053..3214, 3053..3208, 3054..3215, 3055..3216, 3077..3205, 3263..3391, 3285..3392, 3299..3394, 3302..3394, 3526..3705, 3529..3705, 3539..3706, 3543..3707, 3551..3712, 3797..3910, 3804..3911, 4031..4177, 4032..4256, 4033..4254, 4329..4457, 4331..4456, 4331..4465, 4338..4466, 4904..4972, 4905..4973, 5090..5191, 5094..5183, 5269..5346, 5270..5401, 5433..5477, 5436..5477, 5564..5650, 5565..5642, 5728..5787, 5730..5786		

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116167	Strand	-
Start	2479	End	6126
Name	OJ000323_39.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	2641	End	3016
GI	none	Score	60
Exons	2641..2703, 2642..2701, 2787..2978, 2787..2978, 2788..2979, 2789..3016, 2789..2980		

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116167	Strand	-
Start	2479	End	6126
Name	OJ000323_39.0419.C7.o1.np	Method	AAT/NAP
Start	2644	End	6126
GI	6223639	Score	1902
Exons	2644..2700, 2789..2977, 3056..3213, 3301..3391, 3530..3704, 3807..3934, 4035..4253, 4331..4460, 4905..4971, 5089..5183, 5276..5347, 5422..5477, 5570..5639, 5728..5830, 5909..6126		
GI Descrip.	(AC011698) putative casein kinase [Arabidopsis thaliana]		

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116167	Strand	-
Start	2479	End	6126
Name	OJ000323_39.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	2647	End	4167
GI	none	Score	61
Exons	2647..2703, 2648..2701, 2658..2705, 2787..2981, 2787..2843, 2789..2980, 3048..3215, 3053..3214, 3053..3208, 3080..3205,		

3118..3216, 3297..3392, 3299..3394, 3299..3394, 3526..3702,
 3539..3706, 3549..3707, 3551..3721, 3797..3823, 3804..3824,
 3830..3895, 3830..3913, 3831..3908, 3984..4157, 4032..4163,
 4033..4167

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116167	Strand	-
Start	2479	End	6126
Name	OJ000323_39.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	2867	End	3650
GI	none	Score	201
Exons	2867..2947, 3048..3215, 3053..3214, 3053..3139, 3054..3215, 3055..3216, 3083..3163, 3285..3392, 3293..3394, 3300..3404, 3308..3394, 3311..3391, 3528..3638, 3529..3648, 3539..3649, 3546..3650		

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116167	Strand	-
Start	2479	End	6126
Name	OJ000323_39.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	3053	End	5958
GI	none	Score	138
Exons	3053..3208, 3101..3214, 3102..3215, 3285..3392, 3299..3391, 3526..3702, 3539..3706, 3546..3707, 3557..3730, 3797..3913, 3804..3902, 4032..4256, 4033..4254, 4329..4463, 4330..4464, 4331..4465, 4332..4463, 4730..4789, 4880..4963, 4904..4972, 5084..5182, 5091..5180, 5094..5186, 5269..5349, 5270..5425, 5420..5473, 5433..5477, 5564..5650, 5730..5801, 5734..5802, 5919..5957, 5926..5958		

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116167	Strand	-
Start	2479	End	6126
Name	OJ000323_39.0419.C7.o2.gp	Method	AAT/GAP
Start	3661	End	4373
GI	943 1.R1084	Score	730
Exons	3661..3704, 3807..3946, 4035..4253, 4331..4373		
GI Descrip.	'6006848/gb AAF00624.1 AC009540.1 3.0e-50 (AC009540) unknown protein, 5'' partial [Arabidopsis thaliana]'		

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116167	Strand	-
Start	2479	End	6126
Name	OJ000323_39.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	4035	End	4360
GI	none	Score	268
Exons	4035..4256, 4036..4254, 4037..4255, 4331..4360		

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116167	Strand	-
Start	2479	End	6126
Name	OJ000323_39.0419.C7.o3.tc	Method	TBLASTX:Cress
Start	4170	End	5168
GI	none	Score	110
Exons	4170..4256, 4171..4254, 4312..4455, 4329..4457, 4331..4465, 4338..4466, 4880..4969, 4897..4968, 4904..4972, 4905..4973, 5084..5167, 5091..5168, 5100..5168		

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116167	Strand	-
Start	2479	End	6126
Name	OJ000323_39.0419.C7.o3.gp	Method	AAT/GAP
Start	4327	End	5479
GI	736_1.R1084	Score	737
Exons	4327..4460, 4905..4971, 5089..5183, 5276..5347, 5422..5479		
GI Descrip.	'3643611 7.0e-71 (AC005395) putative casein kinase [Arabidopsis thaliana]'		

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116167	Strand	-
Start	2479	End	6126
Name	OJ000323_39.0419.C7.o4.tc	Method	TBLASTX:Cress
Start	5269	End	5757
GI	none	Score	86
Exons	5269..5346, 5270..5383, 5433..5477, 5437..5496, 5564..5650, 5565..5645, 5730..5756, 5734..5757		

Seq. No.	55446	Seq. ID	OJ000323_39.0419.C7
Gene No.	116167	Strand	-
Start	2479	End	6126
Name	OJ000323_39.0419.C7.o4.gp	Method	AAT/GAP
Start	5583	End	5959
GI	63395_1.R1084	Score	524
Exons	5583..5639, 5728..5959		
GI Descrip.	'3643611 5.0e-26 (AC005395) putative casein kinase [Arabidopsis thaliana]'		

Seq. No.	55447	Seq. ID	OJ000323_39.0419.C8
Gene No.	116168	Strand	+
Start	68	End	772
Name	OJ000323_39.0419.C8.o1.gs	Method	GENSCAN
Start	68	End	772
GI	none	Score	.49
Exons	68..199, 285..398, 518..772		

Seq. No.	55447	Seq. ID	OJ000323_39.0419.C8
Gene No.	116169	Strand	-
Start	13	End	1154
Name	OJ000323_39.0419.C8.o1.np	Method	AAT/NAP
Start	13	End	1154
GI	7248403	Score	479
Exons	13..396, 1123..1154		
GI Descrip.	(AP001389) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F20D10; hypothetical protein (AL035538) [Oryza sativa]		

Seq. No.	55448	Seq. ID	OJ000323_39.0419.C9
Gene No.	116170	Strand	-
Start	102	End	1319
Name	OJ000323_39.0419.C9.o1.gs	Method	GENSCAN
Start	102	End	1103
GI	none	Score	.63
Exons	102..316, 432..615, 940..1103		

Seq. No.	55448	Seq. ID	OJ000323_39.0419.C9
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Gene No.	116170	Strand	-
Start	102	End	1319
Name	OJ000323_39.0419.C9.ol.tm	Method	TBLASTX:Maize
Start	207	End	1317
GI	none	Score	72
Exons	207..326, 211..321, 213..329, 428..457, 501..617, 508..627, 511..618, 928..1107, 936..1109, 939..1115, 1176..1316, 1177..1317		

Seq. No.	55448	Seq. ID	OJ000323_39.0419.C9
Gene No.	116170	Strand	-
Start	102	End	1319
Name	OJ000323_39.0419.C9.ol.np	Method	AAT/NAP
Start	459	End	1319
GI	6714287	Score	436
Exons	459..615, 940..1103, 1178..1319		
GI Descrip.	(AC013354) F15H18.10 [Arabidopsis thaliana]		

Seq. No.	55448	Seq. ID	OJ000323_39.0419.C9
Gene No.	116170	Strand	-
Start	102	End	1319
Name	OJ000323_39.0419.C9.ol.tw	Method	TBLASTX:Wheat
Start	535	End	1278
GI	none	Score	80
Exons	535..618, 544..627, 928..1107, 930..1115, 930..1109, 1157..1273, 1176..1274, 1176..1274, 1177..1275, 1177..1278		

Seq. No.	55448	Seq. ID	OJ000323_39.0419.C9
Gene No.	116170	Strand	-
Start	102	End	1319
Name	OJ000323_39.0419.C9.ol.tc	Method	TBLASTX:Cress
Start	937	End	1319
GI	none	Score	56
Exons	937..1122, 976..1092, 1001..1105, 1176..1319, 1177..1317		

Seq. No.	55448	Seq. ID	OJ000323_39.0419.C9
Gene No.	116170	Strand	-
Start	102	End	1319
Name	OJ000323_39.0419.C9.ol.ts	Method	TBLASTX:Soybean
Start	1040	End	1319
GI	none	Score	73
Exons	1040..1108, 1042..1122, 1176..1319, 1177..1317		

Seq. No.	55449	Seq. ID	OJ000323_39.0419.C12
Gene No.	116171	Strand	-
Start	1	End	2818
Name	OJ000323_39.0419.C12.ol.np	Method	AAT/NAP
Start	1	End	2277
GI	6692749	Score	220
Exons	1..234, 392..515, 557..679, 741..845, 2192..2277		
GI Descrip.	(AC012679) kinesin-related protein [Arabidopsis thaliana]		

Seq. No.	55449	Seq. ID	OJ000323_39.0419.C12
Gene No.	116171	Strand	-
Start	1	End	2818
Name	OJ000323_39.0419.C12.ol.gs	Method	GENSCAN
Start	21	End	2818

GI	none	Score	.94
Exons	21..50, 142..234, 392..469, 561..644, 741..838, 1208..1412, 2018..2125, 2192..2346, 2779..2818		

Seq. No.	55449	Seq. ID	OJ000323_39.0419.C12
Gene No.	116172	Strand	-
Start	3472	End	5849
Name	OJ000323_39.0419.C12.o2.gs	Method	GENSCAN
Start	3472	End	5849
GI	none	Score	.49
Exons	3472..3591, 3758..3962, 4841..5003, 5095..5138, 5342..5437, 5563..5849		

Seq. No.	55449	Seq. ID	OJ000323_39.0419.C12
Gene No.	116173	Strand	-
Start	6664	End	9415
Name	OJ000323_39.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	184	End	837
GI	none	Score	75
Exons	184..246, 185..292, 384..440, 385..438, 386..475, 387..458, 558..647, 559..645, 729..827, 739..837		

Seq. No.	55449	Seq. ID	OJ000323_39.0419.C12
Gene No.	116173	Strand	-
Start	6664	End	9415
Name	OJ000323_39.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	2201	End	2353
GI	none	Score	130
Exons	2201..2353, 2203..2352		

Seq. No.	55449	Seq. ID	OJ000323_39.0419.C12
Gene No.	116173	Strand	-
Start	6664	End	9415
Name	OJ000323_39.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	5338	End	5584
GI	none	Score	69
Exons	5338..5562, 5483..5584		

Seq. No.	55449	Seq. ID	OJ000323_39.0419.C12
Gene No.	116173	Strand	-
Start	6664	End	9415
Name	OJ000323_39.0419.C12.o3.gs	Method	GENSCAN
Start	6664	End	9050
GI	none	Score	.75
Exons	6664..7080, 7896..7968, 8920..9050		

Seq. No.	55449	Seq. ID	OJ000323_39.0419.C12
Gene No.	116173	Strand	-
Start	6664	End	9415
Name	OJ000323_39.0419.C12.o1.gp	Method	AAT/GAP
Start	7417	End	7936
GI	none	Score	784
Exons	7417..7794, 7896..7936		

Seq. No.	55449	Seq. ID	OJ000323_39.0419.C12
Gene No.	116173	Strand	-
Start	6664	End	9415

Name	OJ000323_39.0419.C12.o3.tm	Method	TBLASTX:Maize
Start	7649	End	8811
GI	none	Score	61
Exons	7649..7723, 7737..7796, 7753..7800, 7754..7795, 7893..7967, 7894..7968, 7896..7994, 7897..7971, 8091..8174, 8092..8175, 8716..8811, 8718..8783		

Seq. No.	55449	Seq. ID	OJ000323_39.0419.C12
Gene No.	116173	Strand	-
Start	6664	End	9415
Name	OJ000323_39.0419.C12.o2.np	Method	AAT/NAP
Start	7887	End	9077
GI	2062168	Score	308
Exons	7887..7968, 8092..8163, 8716..8784, 8920..9077		
GI Descrip.	(AC001645) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55449	Seq. ID	OJ000323_39.0419.C12
Gene No.	116173	Strand	-
Start	6664	End	9415
Name	OJ000323_39.0419.C12.o2.gp	Method	AAT/GAP
Start	8703	End	9415
GI	uC-osflcyp158c06b1	Score	350
Exons	8703..8784, 8920..9051, 9385..9415		
GI Descrip.	'2062168 6.0e-22 (AC001645) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	55449	Seq. ID	OJ000323_39.0419.C12
Gene No.	116173	Strand	-
Start	6664	End	9415
Name	OJ000323_39.0419.C12.o4.tm	Method	TBLASTX:Maize
Start	8869	End	9308
GI	none	Score	168
Exons	8869..9051, 8916..9053, 8919..9053, 9240..9305, 9242..9307, 9242..9307, 9243..9308		

Seq. No.	55450	Seq. ID	OJ000323_39.0419.C13
Gene No.	116174	Strand	+
Start	1	End	3446
Name	OJ000323_39.0419.C13.o2.np	Method	AAT/NAP
Start	1	End	3446
GI	3643608	Score	201
Exons	1..90, 1978..2144, 2791..2891, 2964..3041, 3328..3446		
GI Descrip.	(AC005395) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55450	Seq. ID	OJ000323_39.0419.C13
Gene No.	116174	Strand	+
Start	1	End	3446
Name	OJ000323_39.0419.C13.o1.gp	Method	AAT/GAP
Start	106	End	297
GI	uC-osflcyp158c06b1	Score	335
Exons	106..297		
GI Descrip.	'2062168 6.0e-22 (AC001645) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	55450	Seq. ID	OJ000323_39.0419.C13
Gene No.	116174	Strand	+
Start	1	End	3446

Name	OJ000323_39.0419.C13.o1.np	Method	AAT/NAP
Start	629	End	737
GI	5852093	Score	62
Exons	629..737		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	55450	Seq. ID	OJ000323_39.0419.C13
Gene No.	116174	Strand	+
Start	1	End	3446
Name	OJ000323_39.0419.C13.o1.gs	Method	GENSCAN
Start	2005	End	3440
GI	none	Score	.59
Exons	2005..2144, 2806..3041, 3328..3440		

Seq. No.	55450	Seq. ID	OJ000323_39.0419.C13
Gene No.	116174	Strand	+
Start	1	End	3446
Name	OJ000323_39.0419.C13.o2.gp	Method	AAT/GAP
Start	2052	End	3038
GI	uC-osflcyp035g10b1	Score	441
Exons	2052..2144, 2806..2891, 2964..3038		
GI Descrip.	'2950395/emb CAA12157 5.0e-58 (AJ224847) oxidoreductase [Zea mays]'		

Seq. No.	55451	Seq. ID	OJ000323_39.0419.C14
Gene No.	116175	Strand	+
Start	1	End	2267
Name	OJ000323_39.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	1854
GI	3643608	Score	438
Exons	1..213, 360..584, 1119..1272, 1722..1854		
GI Descrip.	(AC005395) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55451	Seq. ID	OJ000323_39.0419.C14
Gene No.	116175	Strand	+
Start	1	End	2267
Name	OJ000323_39.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	75	End	565
GI	none	Score	132
Exons	75..212, 81..212, 97..213, 339..500, 361..501, 364..501, 365..505, 366..506, 505..564, 506..565		

Seq. No.	55451	Seq. ID	OJ000323_39.0419.C14
Gene No.	116175	Strand	+
Start	1	End	2267
Name	OJ000323_39.0419.C14.o1.gs	Method	GENSCAN
Start	85	End	2267
GI	none	Score	.5
Exons	85..213, 369..574, 1130..1272, 2133..2267		

Seq. No.	55451	Seq. ID	OJ000323_39.0419.C14
Gene No.	116175	Strand	+
Start	1	End	2267
Name	OJ000323_39.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	150	End	1243
GI	none	Score	94
Exons	150..212, 364..582, 365..583, 1148..1243		

Seq. No.	55451	Seq. ID	OJ000323_39.0419.C14
Gene No.	116175	Strand	+
Start	1	End	2267
Name	OJ000323_39.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	327	End	1234
GI	none	Score	92
Exons	327..512, 367..570, 368..583, 1148..1234		

Seq. No.	55451	Seq. ID	OJ000323_39.0419.C14
Gene No.	116175	Strand	+
Start	1	End	2267
Name	OJ000323_39.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	1222	End	1862
GI	none	Score	72
Exons	1222..1287, 1223..1288, 1691..1852, 1714..1854, 1728..1862, 1728..1853		

Seq. No.	55452	Seq. ID	OJ000323_39.0419.C15
Gene No.	116176	Strand	+
Start	1	End	1112
Name	OJ000323_39.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	775
GI	7508879	Score	115
Exons	1..41, 254..369, 410..775		
GI Descrip.	hypothetical protein W03D2.1 - Caenorhabditis elegans gi 1947160 gb AAC48255.1 (AF000298) weak similarity to collagens; glycine- and proline-rich [Caenorhabditis elegans]		

Seq. No.	55452	Seq. ID	OJ000323_39.0419.C15
Gene No.	116176	Strand	+
Start	1	End	1112
Name	OJ000323_39.0419.C15.o1.gs	Method	GENSCAN
Start	633	End	1112
GI	none	Score	.59
Exons	633..822, 1048..1112		

Seq. No.	55452	Seq. ID	OJ000323_39.0419.C15
Gene No.	116177	Strand	-
Start	1406	End	2433
Name	OJ000323_39.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	1394	End	2361
GI	none	Score	98
Exons	1394..1495, 1419..1499, 1585..1716, 1586..1714, 1822..1923, 1835..1918, 2066..2146, 2071..2148, 2281..2361, 2297..2356		

Seq. No.	55452	Seq. ID	OJ000323_39.0419.C15
Gene No.	116177	Strand	-
Start	1406	End	2433
Name	OJ000323_39.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	1401	End	2373
GI	none	Score	81
Exons	1401..1499, 1406..1495, 1585..1716, 1586..1714, 1822..1923, 1835..1927, 2062..2148, 2066..2146, 2281..2373, 2285..2368		

Seq. No.	55452	Seq. ID	OJ000323_39.0419.C15
Gene No.	116177	Strand	-

Start	1406	End	2433
Name	OJ000323_39.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	1406	End	2371
GI	none	Score	42
Exons	1406..1495, 1409..1495, 1428..1496, 1585..1713, 1585..1716, 1586..1714, 1822..1923, 1835..1927, 2062..2148, 2090..2146, 2281..2361, 2282..2371		

Seq. No.	55452	Seq. ID	OJ000323_39.0419.C15
Gene No.	116177	Strand	-
Start	1406	End	2433
Name	OJ000323_39.0419.C15.o2.gs	Method	GENSCAN
Start	1406	End	2151
GI	none	Score	.57
Exons	1406..1494, 1587..1715, 1833..1923, 2071..2151		

Seq. No.	55452	Seq. ID	OJ000323_39.0419.C15
Gene No.	116177	Strand	-
Start	1406	End	2433
Name	OJ000323_39.0419.C15.o2.np	Method	AAT/NAP
Start	1409	End	2433
GI	7431235	Score	589
Exons	1409..1494, 1587..1715, 1833..1923, 2071..2145, 2281..2433		
GI Descrip.	probable malate dehydrogenase (oxaloacetate-decarboxylating) (NADP+) (EC 1.1.1.40) - maize gi 2950395 emb CAA12157.1 (AJ224847) oxidoreductase [Zea mays]		

Seq. No.	55452	Seq. ID	OJ000323_39.0419.C15
Gene No.	116177	Strand	-
Start	1406	End	2433
Name	OJ000323_39.0419.C15.o1.gp	Method	AAT/GAP
Start	1859	End	2433
GI	3107510	Score	376
Exons	1859..1921, 2070..2145, 2281..2433		
GI Descrip.	2950395/emb CAA12157 5.0e-58 (AJ224847) oxidoreductase [Zea mays]		

Seq. No.	55453	Seq. ID	OJ000323_39.0419.C16
Gene No.	116178	Strand	+
Start	5053	End	5674
Name	OJ000323_39.0419.C16.o2.np	Method	AAT/NAP
Start	5053	End	5674
GI	6572289	Score	84
Exons	5053..5247, 5592..5674		
GI Descrip.	(AJ242739) mitochondrial tryptophanyl-tRNA synthetase [Homo sapiens]		

Seq. No.	55453	Seq. ID	OJ000323_39.0419.C16
Gene No.	116179	Strand	-
Start	1	End	3253
Name	OJ000323_39.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	3253
GI	7431235	Score	1403
Exons	1..49, 130..183, 272..319, 795..893, 1032..1115, 1205..1276, 1383..1478, 1566..1631, 1764..1869, 2026..2177, 2296..2370, 2458..2578, 2966..3253		
GI Descrip.	probable malate dehydrogenase (oxaloacetate-decarboxylating)		

(NADP+) (EC 1.1.1.40) - maize gi|2950395|emb|CAA12157.1|
(AJ224847) oxidoreductase [Zea mays]

Seq. No.	55453	Seq. ID	OJ000323_39.0419.C16
Gene No.	116179	Strand	-
Start	1	End	3253
Name	OJ000323_39.0419.C16.o2.tc	Method	TBLASTX:Cress
Start	2	End	3033
GI	none	Score	61
Exons	2..52, 118..186, 272..322, 1800..1871, 1801..1869, 1801..1872, 2025..2171, 2025..2171, 2026..2172, 2026..2175, 2245..2376, 2283..2372, 2296..2382, 2458..2580, 2492..2593, 2968..3033		

Seq. No.	55453	Seq. ID	OJ000323_39.0419.C16
Gene No.	116179	Strand	-
Start	1	End	3253
Name	OJ000323_39.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	2	End	2596
GI	none	Score	46
Exons	2..52, 6..50, 88..186, 122..175, 272..322, 276..320, 2245..2376, 2283..2366, 2296..2397, 2455..2580, 2455..2580, 2495..2596		

Seq. No.	55453	Seq. ID	OJ000323_39.0419.C16
Gene No.	116179	Strand	-
Start	1	End	3253
Name	OJ000323_39.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	2	End	1823
GI	none	Score	53
Exons	2..52, 118..186, 122..175, 272..322, 276..320, 795..896, 796..894, 1018..1116, 1020..1124, 1032..1118, 1205..1279, 1205..1276, 1382..1462, 1383..1478, 1387..1479, 1566..1631, 1567..1632, 1762..1818, 1764..1823		

Seq. No.	55453	Seq. ID	OJ000323_39.0419.C16
Gene No.	116179	Strand	-
Start	1	End	3253
Name	OJ000323_39.0419.C16.o1.gs	Method	GENSCAN
Start	130	End	3099
GI	none	Score	.81
Exons	130..183, 272..319, 795..893, 1032..1115, 1205..1276, 1383..1478, 1764..1869, 2026..2176, 2296..2433, 2496..2578, 2966..3099		

Seq. No.	55453	Seq. ID	OJ000323_39.0419.C16
Gene No.	116179	Strand	-
Start	1	End	3253
Name	OJ000323_39.0419.C16.o1.gp	Method	AAT/GAP
Start	275	End	1472
GI	LIB3479-006-Q6-K1-H10	Score	665
Exons	275..319, 795..893, 1032..1115, 1205..1276, 1383..1472		
GI Descrip.	'2950395/emb CAA12157 5.0e-59 (AJ224847) oxidoreductase [Zea mays]'		

Seq. No.	55453	Seq. ID	OJ000323_39.0419.C16
Gene No.	116179	Strand	-
Start	1	End	3253
Name	OJ000323_39.0419.C16.o1.tm	Method	TBLASTX:Maize

Start	771	End	2172
GI	none	Score	125
Exons	771..896, 778..894, 783..896, 794..901, 1031..1117, 1032..1118, 1032..1124, 1205..1276, 1206..1253, 1216..1284, 1222..1278, 1365..1478, 1366..1476, 1383..1478, 1565..1633, 1566..1631, 1567..1635, 1760..1858, 1763..1858, 1764..1871, 2025..2171, 2025..2171, 2026..2172		

Seq. No.	55453	Seq. ID	OJ000323_39.0419.C16
Gene No.	116179	Strand	-
Start	1	End	3253
Name	OJ000323_39.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	795	End	1799
GI	none	Score	83
Exons	795..896, 796..900, 1020..1124, 1036..1119, 1205..1276, 1214..1279, 1383..1478, 1387..1479, 1566..1631, 1567..1632, 1764..1799		

Seq. No.	55453	Seq. ID	OJ000323_39.0419.C16
Gene No.	116179	Strand	-
Start	1	End	3253
Name	OJ000323_39.0419.C16.o2.tw	Method	TBLASTX:Wheat
Start	798	End	1469
GI	none	Score	96
Exons	798..896, 799..894, 1018..1116, 1020..1124, 1032..1118, 1193..1276, 1205..1279, 1365..1469, 1366..1467, 1383..1469		

Seq. No.	55453	Seq. ID	OJ000323_39.0419.C16
Gene No.	116179	Strand	-
Start	1	End	3253
Name	OJ000323_39.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	1824	End	2581
GI	none	Score	112
Exons	1824..1871, 2025..2171, 2025..2171, 2026..2172, 2245..2376, 2289..2372, 2294..2389, 2296..2388, 2458..2574, 2458..2580, 2495..2581		

Seq. No.	55453	Seq. ID	OJ000323_39.0419.C16
Gene No.	116179	Strand	-
Start	1	End	3253
Name	OJ000323_39.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	2034	End	3036
GI	none	Score	113
Exons	2034..2171, 2034..2171, 2035..2172, 2038..2178, 2039..2182, 2245..2376, 2283..2375, 2295..2378, 2296..2382, 2451..2564, 2456..2563, 2457..2567, 2458..2583, 2458..2580, 2492..2590, 2968..3036		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116180	Strand	+
Start	1	End	2052
Name	OJ000323_39.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	1183
GI	5852084	Score	96
Exons	1..31, 1059..1183		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116180	Strand	+
Start	1	End	2052
Name	OJ000323_39.0419.C17.o1.gs	Method	GENSCAN
Start	271	End	2052
GI	none	Score	1
Exons	271..275, 1836..2052		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116181	Strand	+
Start	5985	End	7215
Name	OJ000323_39.0419.C17.o3.gs	Method	GENSCAN
Start	5985	End	7215
GI	none	Score	.77
Exons	5985..6205, 6868..6952, 6985..7215		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116182	Strand	+
Start	12524	End	14867
Name	OJ000323_39.0419.C17.o5.gs	Method	GENSCAN
Start	12524	End	13706
GI	none	Score	.98
Exons	12524..12549, 12606..13536, 13635..13706		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116182	Strand	+
Start	12524	End	14867
Name	OJ000323_39.0419.C17.o1.gp	Method	AAT/GAP
Start	12732	End	13220
GI	uC-osrocyp009e12b1	Score	962
Exons	12732..13220		
GI Descrip.	'4539525/emb CAB39967.1 1.0e-15 (AJ012370) NAALADase II protein [Homo sapiens]'		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116182	Strand	+
Start	12524	End	14867
Name	OJ000323_39.0419.C17.o3.np	Method	AAT/NAP
Start	13012	End	14867
GI	4773917	Score	636
Exons	13012..13449, 13498..13540, 13651..13702, 14215..14320, 14365..14483, 14798..14867		
GI Descrip.	(AF147259) similar to human prostate-specific membrane antigen (PSM) (SP:Q04609) [Arabidopsis thaliana]		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116183	Strand	-
Start	2210	End	6635
Name	OJ000323_39.0419.C17.o2.gs	Method	GENSCAN
Start	2210	End	5680
GI	none	Score	.92
Exons	2210..2266, 2766..2876, 3027..3162, 3658..3893, 4748..4954, 5033..5225, 5310..5680		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116183	Strand	-
Start	2210	End	6635

Name	OJ000323_39.0419.C17.o2.np	Method	AAT/NAP
Start	2911	End	6635
GI	4415916	Score	580
Exons	2911..2973, 3022..3162, 3658..3893, 4748..4954, 5033..5225, 5310..5413, 6355..6635		

GI Descrip. (AC006282) putative pectinesterase [Arabidopsis thaliana]

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116184	Strand	-
Start	8463	End	11194
Name	OJ000323_39.0419.C17.o3.tm	Method	TBLASTX:Maize
Start	2967	End	3852
GI	none	Score	205
Exons	2967..2987, 2974..3141, 3013..3162, 3015..3161, 3657..3851, 3658..3852, 3772..3852		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116184	Strand	-
Start	8463	End	11194
Name	OJ000323_39.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	3702	End	4964
GI	none	Score	66
Exons	3702..3821, 3709..3822, 3789..3896, 4748..4954, 4758..4964		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116184	Strand	-
Start	8463	End	11194
Name	OJ000323_39.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	4744	End	5225
GI	none	Score	81
Exons	4744..4845, 4746..4844, 4748..4957, 4749..4964, 5015..5110, 5016..5108, 5129..5224, 5136..5225		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116184	Strand	-
Start	8463	End	11194
Name	OJ000323_39.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	4746	End	5231
GI	none	Score	297
Exons	4746..4958, 4746..4844, 4748..4957, 5018..5230, 5031..5231		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116184	Strand	-
Start	8463	End	11194
Name	OJ000323_39.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	4748	End	5473
GI	none	Score	68
Exons	4748..4957, 4750..4845, 4770..4955, 5021..5122, 5135..5227, 5312..5473		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116184	Strand	-
Start	8463	End	11194
Name	OJ000323_39.0419.C17.o4.tm	Method	TBLASTX:Maize
Start	5309	End	5531
GI	none	Score	116
Exons	5309..5461, 5361..5459, 5387..5464, 5459..5524, 5462..5530,		

5463..5531

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116184	Strand	-
Start	8463	End	11194
Name	OJ000323_39.0419.C17.o4.gs	Method	GENSCAN
Start	8463	End	11194
GI	none	Score	.48
Exons	8463..8721, 8835..8984, 10056..10245, 10542..10637, 10748..10879, 11146..11194		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116185	Strand	
Start	12777	End	13200
Name	OJ000323_39.0419.C17.o2.ts	Method	TBLASTX:Soybean
Start	12777	End	13200
GI	none	Score	101
Exons	12777..12818, 12778..12903, 12892..13083, 12924..13070, 13092..13199, 13093..13200		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116186	Strand	
Start	13234	End	14697
Name	OJ000323_39.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	13234	End	14697
GI	none	Score	121
Exons	13234..13326, 13236..13400, 13250..13333, 13302..13574, 13303..13536, 13634..13705, 13635..13721, 14189..14296, 14216..14299, 14365..14460, 14373..14447, 14542..14637, 14544..14636, 14635..14697		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116186	Strand	
Start	13234	End	14697
Name	OJ000323_39.0419.C17.o3.ts	Method	TBLASTX:Soybean
Start	14213	End	14601
GI	none	Score	134
Exons	14213..14281, 14216..14299, 14227..14295, 14365..14460, 14369..14440, 14376..14453, 14542..14601, 14544..14600		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116186	Strand	
Start	13234	End	14697
Name	OJ000323_39.0419.C17.o2.tc	Method	TBLASTX:Cress
Start	14216	End	14460
GI	none	Score	119
Exons	14216..14299, 14221..14295, 14365..14460, 14397..14453		

Seq. No.	55454	Seq. ID	OJ000323_39.0419.C17
Gene No.	116186	Strand	
Start	13234	End	14697
Name	OJ000323_39.0419.C17.o2.tw	Method	TBLASTX:Wheat
Start	14216	End	14610
GI	none	Score	122
Exons	14216..14299, 14216..14296, 14221..14298, 14360..14449, 14364..14507, 14365..14460, 14542..14610, 14544..14609		

Seq. No.	55455	Seq. ID	OJ000323_39.0419.C18
Gene No.	116187	Strand	+
Start	253	End	370
Name	OJ000323_39.0419.C18.o1.np	Method	AAT/NAP
Start	253	End	370
GI	7258376	Score	35
Exons	253..370		
GI Descrip.	(AL138650) Peptidase-like protein [Arabidopsis thaliana]		

Seq. No.	55456	Seq. ID	OJ000313_39.0419.C3
Gene No.	116188	Strand	+
Start	3756	End	4464
Name	OJ000313_39.0419.C3.o1.gp	Method	AAT/GAP
Start	3756	End	4464
GI	none	Score	1363
Exons	3756..4464		

Seq. No.	55456	Seq. ID	OJ000313_39.0419.C3
Gene No.	116189	Strand	-
Start	1	End	2664
Name	OJ000313_39.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	2664
GI	4263522	Score	504
Exons	1..896, 2517..2664		
GI Descrip.	(AC004044) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55456	Seq. ID	OJ000313_39.0419.C3
Gene No.	116189	Strand	-
Start	1	End	2664
Name	OJ000313_39.0419.C3.o1.gs	Method	GENSCAN
Start	65	End	1329
GI	none	Score	.61
Exons	65..1329		

Seq. No.	55456	Seq. ID	OJ000313_39.0419.C3
Gene No.	116190	Strand	-
Start	3888	End	4648
Name	OJ000313_39.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	1	End	1110
GI	none	Score	103
Exons	1..309, 331..546, 367..618, 514..714, 640..804, 670..1110		

Seq. No.	55456	Seq. ID	OJ000313_39.0419.C3
Gene No.	116190	Strand	-
Start	3888	End	4648
Name	OJ000313_39.0419.C3.o2.ts	Method	TBLASTX:Soybean
Start	1	End	1110
GI	none	Score	136
Exons	1..249, 5..238, 373..546, 958..1110		

Seq. No.	55456	Seq. ID	OJ000313_39.0419.C3
Gene No.	116190	Strand	-
Start	3888	End	4648
Name	OJ000313_39.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	7	End	1071
GI	none	Score	71
Exons	7..120, 10..309, 41..295, 154..309, 355..483, 400..621,		

724..1071

Seq. No.	55456	Seq. ID	OJ000313_39.0419.C3
Gene No.	116190	Strand	-
Start	3888	End	4648
Name	OJ000313_39.0419.C3.o2.tc	Method	TBLASTX:Cress
Start	28	End	1107
GI	none	Score	60
Exons	28..141, 154..309, 358..531, 358..729, 385..459, 451..621, 469..591, 518..712, 538..801, 547..711, 630..671, 640..807, 646..1083, 706..1107		

Seq. No.	55456	Seq. ID	OJ000313_39.0419.C3
Gene No.	116190	Strand	-
Start	3888	End	4648
Name	OJ000313_39.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	3841	End	4453
GI	none	Score	119
Exons	3841..3984, 3897..3983, 4098..4268, 4100..4279, 4394..4453		

Seq. No.	55456	Seq. ID	OJ000313_39.0419.C3
Gene No.	116190	Strand	-
Start	3888	End	4648
Name	OJ000313_39.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	3886	End	4648
GI	none	Score	145
Exons	3886..3984, 3888..3986, 3888..3983, 4100..4279, 4101..4283, 4155..4280, 4383..4406, 4388..4483, 4389..4472, 4562..4648		

Seq. No.	55456	Seq. ID	OJ000313_39.0419.C3
Gene No.	116190	Strand	-
Start	3888	End	4648
Name	OJ000313_39.0419.C3.o2.gs	Method	GENSCAN
Start	3888	End	4627
GI	none	Score	.98
Exons	3888..3984, 4101..4280, 4389..4473, 4561..4627		

Seq. No.	55456	Seq. ID	OJ000313_39.0419.C3
Gene No.	116190	Strand	-
Start	3888	End	4648
Name	OJ000313_39.0419.C3.o2.tw	Method	TBLASTX:Wheat
Start	3888	End	4166
GI	none	Score	137
Exons	3888..3983, 3889..4044, 3898..3984, 4100..4165, 4101..4166		

Seq. No.	55456	Seq. ID	OJ000313_39.0419.C3
Gene No.	116190	Strand	-
Start	3888	End	4648
Name	OJ000313_39.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	3889	End	4306
GI	none	Score	111
Exons	3889..3981, 3897..3983, 3898..3984, 4098..4268, 4100..4279, 4244..4306		

Seq. No.	55457	Seq. ID	OJ000313_39.0419.C4
Gene No.	116191	Strand	+
Start	459	End	607

Name	OJ000313_39.0419.C4.o1.gp	Method	AAT/GAP
Start	459	End	607
GI	uC-osflcyp104c12a1	Score	198
Exons	459..607		
GI Descrip.	'5852170/emb AL117265.1 OST17804 3.0e-29 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	55457	Seq. ID	OJ000313_39.0419.C4
Gene No.	116192	Strand	+
Start	4272	End	7703
Name	OJ000313_39.0419.C4.o2.gs	Method	GENSCAN
Start	4272	End	7697
GI	none	Score	.58
Exons	4272..4298, 6011..6351, 6668..7697		

Seq. No.	55457	Seq. ID	OJ000313_39.0419.C4
Gene No.	116192	Strand	+
Start	4272	End	7703
Name	OJ000313_39.0419.C4.o2.gp	Method	AAT/GAP
Start	6738	End	7052
GI	95327_1.R1084	Score	565
Exons	6738..7052		
GI Descrip.	'1707032 2.0e-15 (U80445) coded for by C. elegans cDNA yk13g5.3; coded for by C. elegans cDNA yk21g6.3; coded for by C. elegans cDNA CEMSE18F; coded for by C. elegans cDNA yk126b1.3; coded for by C. elegans cDNA yk65h8.3; coded for by C. elegans cDNA yk65h8'		

Seq. No.	55457	Seq. ID	OJ000313_39.0419.C4
Gene No.	116192	Strand	+
Start	4272	End	7703
Name	OJ000313_39.0419.C4.o1.np	Method	AAT/NAP
Start	6759	End	7703
GI	4678221	Score	389
Exons	6759..7703		
GI Descrip.	(AC007135) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55457	Seq. ID	OJ000313_39.0419.C4
Gene No.	116193	Strand	-
Start	208	End	2560
Name	OJ000313_39.0419.C4.o1.gs	Method	GENSCAN
Start	208	End	2560
GI	none	Score	.48
Exons	208..359, 1611..1833, 1912..2114, 2410..2560		

Seq. No.	55457	Seq. ID	OJ000313_39.0419.C4
Gene No.	116194	Strand	-
Start	7461	End	13163
Name	OJ000313_39.0419.C4.o2.np	Method	AAT/NAP
Start	7461	End	9256
GI	1076731	Score	90
Exons	7461..7493, 7640..7675, 8920..9054, 9157..9256		
GI Descrip.	RNA binding protein - barley gi 728594 emb CAA88558.1 (Z48624) glycine rich protein, RNA binding protein [Hordeum vulgare]		

Seq. No.	55457	Seq. ID	OJ000313_39.0419.C4
Gene No.	116194	Strand	-

Start	7461	End	13163
Name	OJ000313_39.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	8613	End	9592
GI	none	Score	107
Exons	8613..8723, 8630..8728, 8938..9039, 8945..9052, 8946..9059, 9152..9226, 9153..9227, 9458..9514, 9459..9515, 9524..9592, 9536..9592		

Seq. No.	55457	Seq. ID	OJ000313_39.0419.C4
Gene No.	116194	Strand	-
Start	7461	End	13163
Name	OJ000313_39.0419.C4.o3.gs	Method	GENSCAN
Start	8615	End	13163
GI	none	Score	.73
Exons	8615..8725, 9167..9225, 9460..9725, 10590..10750, 10954..11047, 13115..13163		

Seq. No.	55457	Seq. ID	OJ000313_39.0419.C4
Gene No.	116194	Strand	-
Start	7461	End	13163
Name	OJ000313_39.0419.C4.o3.gp	Method	AAT/GAP
Start	8674	End	9627
GI	2312823	Score	762
Exons	8674..8725, 8948..9054, 9157..9225, 9309..9371, 9460..9627		

Seq. No.	55458	Seq. ID	OJ000313_39.0419.C6
Gene No.	116195	Strand	+
Start	365	End	3809
Name	OJ000313_39.0419.C6.o1.gs	Method	GENSCAN
Start	365	End	3809
GI	none	Score	.69
Exons	365..421, 509..572, 844..1050, 1356..1608, 2123..2282, 2692..2713, 2818..2933, 2999..3809		

Seq. No.	55458	Seq. ID	OJ000313_39.0419.C6
Gene No.	116196	Strand	+
Start	7326	End	8137
Name	OJ000313_39.0419.C6.o1.np	Method	AAT/NAP
Start	7326	End	8137
GI	5921832	Score	208
Exons	7326..7427, 7696..7903, 7937..8137		
GI Descrip.	COPPER TRANSPORTER 1 gi 1082054 emb CAA90018 (Z49859) copper transporter protein [Arabidopsis thaliana]		

Seq. No.	55458	Seq. ID	OJ000313_39.0419.C6
Gene No.	116197	Strand	-
Start	4303	End	9396
Name	OJ000313_39.0419.C6.o2.gs	Method	GENSCAN
Start	4303	End	9396
GI	none	Score	.62
Exons	4303..4835, 5144..5261, 7590..7730, 7796..8132, 9100..9186, 9207..9293, 9305..9396		

Seq. No.	55459	Seq. ID	OJ000313_39.0419.C8
Gene No.	116198	Strand	+
Start	1	End	189
Name	OJ000313_39.0419.C8.o1.np	Method	AAT/NAP

Start	1	End	186
GI	5306263	Score	171
Exons	1..186		
GI Descrip.	(AC006233) unknown protein [Arabidopsis thaliana]		

Seq. No.	55459	Seq. ID	OJ000313_39.0419.C8
Gene No.	116198	Strand	+
Start	1	End	189
Name	OJ000313_39.0419.C8.o1.gs	Method	GENSCAN
Start	25	End	189
GI	none	Score	.91
Exons	25..189		

Seq. No.	55459	Seq. ID	OJ000313_39.0419.C8
Gene No.	116199	Strand	-
Start	1	End	345
Name	OJ000313_39.0419.C8.o1.gp	Method	AAT/GAP
Start	1	End	345
GI	34607 1.R1084	Score	666
Exons	1..345		
GI Descrip.	'5306263/gb AAD41995.1 AC006233_6 2.0e-20 (AC006233) unknown protein [Arabidopsis thaliana]'		

Seq. No.	55459	Seq. ID	OJ000313_39.0419.C8
Gene No.	116199	Strand	-
Start	1	End	345
Name	OJ000313_39.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1	End	326
GI	none	Score	298
Exons	1..222, 3..86, 19..201, 74..202, 279..326		

Seq. No.	55460	Seq. ID	OJ000313_39.0419.C11
Gene No.	116200	Strand	+
Start	274	End	769
Name	OJ000313_39.0419.C11.o1.gp	Method	AAT/GAP
Start	274	End	769
GI	none	Score	617
Exons	274..769		

Seq. No.	55460	Seq. ID	OJ000313_39.0419.C11
Gene No.	116200	Strand	+
Start	274	End	769
Name	OJ000313_39.0419.C11.o1.gs	Method	GENSCAN
Start	417	End	739
GI	none	Score	.78
Exons	417..441, 609..739		

Seq. No.	55461	Seq. ID	OJ000313_39.0419.C14
Gene No.	116201	Strand	+
Start	181	End	334
Name	OJ000313_39.0419.C14.o1.gs	Method	GENSCAN
Start	181	End	334
GI	none	Score	.61
Exons	181..334		

Seq. No.	55462	Seq. ID	OJ000313_39.0419.C21
Gene No.	116202	Strand	-

Start	393	End	605
Name	OJ000313_39.0419.C21.o1.gs	Method	GENSCAN
Start	393	End	605
GI	none	Score	.61
Exons	393..605		

Seq. No.	55463	Seq. ID	OJ000313_39.0419.C22
Gene No.	116203	Strand	-
Start	1	End	1271
Name	OJ000313_39.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	896
GI	6721562	Score	1398
Exons	1..896		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi 6815087 dbj BAA90373.1 (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	55463	Seq. ID	OJ000313_39.0419.C22
Gene No.	116203	Strand	-
Start	1	End	1271
Name	OJ000313_39.0419.C22.o2.np	Method	AAT/NAP
Start	1	End	1271
GI	6539586	Score	573
Exons	1..53, 377..546, 879..1271		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	55463	Seq. ID	OJ000313_39.0419.C22
Gene No.	116203	Strand	-
Start	1	End	1271
Name	OJ000313_39.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	3	End	242
GI	none	Score	80
Exons	3..107, 90..188, 91..183, 195..242		

Seq. No.	55463	Seq. ID	OJ000313_39.0419.C22
Gene No.	116203	Strand	-
Start	1	End	1271
Name	OJ000313_39.0419.C22.o1.gs	Method	GENSCAN
Start	87	End	1247
GI	none	Score	.45
Exons	87..1247		

Seq. No.	55464	Seq. ID	OJ000313_39.0419.C23
Gene No.	116204	Strand	+
Start	111	End	4175
Name	OJ000313_39.0419.C23.o1.gs	Method	GENSCAN
Start	111	End	378
GI	none	Score	.43
Exons	111..154, 264..378		

Seq. No.	55464	Seq. ID	OJ000313_39.0419.C23
Gene No.	116204	Strand	+
Start	111	End	4175
Name	OJ000313_39.0419.C23.o2.np	Method	AAT/NAP
Start	125	End	4175

GI 4680183 Score 129
 Exons 125..155, 4084..4175
 GI Descrip. (AF111709) gag-pol protein [Oryza sativa subsp. indica]

Seq. No. 55464 Seq. ID OJ000313_39.0419.C23
 Gene No. 116205 Strand -
 Start 1992 End 4053
 Name OJ000313_39.0419.C23.o1.np Method AAT/NAP
 Start 1992 End 4053
 GI 6721561 Score 134
 Exons 1992..2036, 3949..4053
 GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the
 predicted gene.; hypothetical protein [Oryza sativa]
 gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976)
 corresponds to a region of the predicted gene.; hypothetical
 protein [Oryza sativa]

Seq. No. 55464 Seq. ID OJ000313_39.0419.C23
 Gene No. 116206 Strand -
 Start 4890 End 5114
 Name OJ000313_39.0419.C23.o3.gs Method GENSCAN
 Start 4890 End 5114
 GI none Score .89
 Exons 4890..5114

Seq. No. 55465 Seq. ID OJ000313_39.0419.C24
 Gene No. 116207 Strand +
 Start 14 End 463
 Name OJ000313_39.0419.C24.o1.gs Method GENSCAN
 Start 14 End 463
 GI none Score .72
 Exons 14..463

Seq. No. 55465 Seq. ID OJ000313_39.0419.C24
 Gene No. 116208 Strand +
 Start 1531 End 2031
 Name OJ000313_39.0419.C24.o2.gs Method GENSCAN
 Start 1531 End 2031
 GI none Score .71
 Exons 1531..2031

Seq. No. 55465 Seq. ID OJ000313_39.0419.C24
 Gene No. 116209 Strand +
 Start 2613 End 3713
 Name OJ000313_39.0419.C24.o3.np Method AAT/NAP
 Start 2613 End 3713
 GI 4335720 Score 222
 Exons 2613..3063, 3237..3713
 GI Descrip. (AC006248) putative non-LTR retroelement reverse transcriptase
 [Arabidopsis thaliana]

Seq. No. 55465 Seq. ID OJ000313_39.0419.C24
 Gene No. 116210 Strand -
 Start 1 End 2416
 Name OJ000313_39.0419.C24.o1.np Method AAT/NAP
 Start 1 End 2416
 GI 81286 Score 190

Exons 1..573, 2340..2416
 GI Descrip. extensin - Volvox carteri (fragment) gi|21992|emb|CAA46283|
 (X65165) extensin [Volvox carteri]

Seq. No.	55466	Seq. ID	OJ000313_39.0419.C25
Gene No.	116211	Strand	-
Start	1	End	835
Name	OJ000313_39.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	835
GI	2651309	Score	492
Exons	1..89, 162..429, 521..690, 733..835		
GI Descrip.	(AC002336) unknown protein [Arabidopsis thaliana]		

Seq. No.	55466	Seq. ID	OJ000313_39.0419.C25
Gene No.	116211	Strand	-
Start	1	End	835
Name	OJ000313_39.0419.C25.o1.gs	Method	GENSCAN
Start	16	End	821
GI	none	Score	.75
Exons	16..429, 521..821		

Seq. No.	55466	Seq. ID	OJ000313_39.0419.C25
Gene No.	116211	Strand	-
Start	1	End	835
Name	OJ000313_39.0419.C25.o1.tc	Method	TBLASTX:Cress
Start	208	End	823
GI	none	Score	96
Exons	208..429, 209..430, 521..691, 525..692, 776..823		

Seq. No.	55466	Seq. ID	OJ000313_39.0419.C25
Gene No.	116211	Strand	-
Start	1	End	835
Name	OJ000313_39.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	337	End	662
GI	none	Score	85
Exons	337..435, 337..432, 524..661, 525..662		

Seq. No.	55466	Seq. ID	OJ000313_39.0419.C25
Gene No.	116211	Strand	-
Start	1	End	835
Name	OJ000313_39.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	524	End	823
GI	none	Score	180
Exons	524..700, 525..692, 776..823		

Seq. No.	55467	Seq. ID	OJ000313_39.0419.C28
Gene No.	116212	Strand	+
Start	1	End	1335
Name	OJ000313_39.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	1335
GI	6017111	Score	132
Exons	1..76, 589..739, 1297..1335		
GI Descrip.	(AC009895) unknown protein [Arabidopsis thaliana]		

Seq. No.	55467	Seq. ID	OJ000313_39.0419.C28
Gene No.	116212	Strand	+
Start	1	End	1335

Name	OJ000313_39.0419.C28.o1.gs	Method	GENSCAN
Start	610	End	735
GI	none	Score	.99
Exons	610..735		

Seq. No.	55468	Seq. ID	OJ000313_39.0419.C31
Gene No.	116213	Strand	+
Start	1	End	520
Name	OJ000313_39.0419.C31.o1.gp	Method	AAT/GAP
Start	1	End	520
GI	4850 1.R1084	Score	635
Exons	1..117, 231..520		
GI Descrip.	'499099 2.0e-27 (U09942) beta-galactosidase alpha-peptide [Cloning vector pDB31]'		

Seq. No.	55468	Seq. ID	OJ000313_39.0419.C31
Gene No.	116214	Strand	-
Start	791	End	1079
Name	OJ000313_39.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	49	End	324
GI	none	Score	108
Exons	49..111, 51..134, 51..134, 53..136, 225..323, 230..322, 265..324, 268..324		

Seq. No.	55468	Seq. ID	OJ000313_39.0419.C31
Gene No.	116214	Strand	-
Start	791	End	1079
Name	OJ000313_39.0419.C31.o1.tc	Method	TBLASTX:Cress
Start	51	End	400
GI	none	Score	106
Exons	51..134, 53..136, 225..293, 230..400, 265..399		

Seq. No.	55468	Seq. ID	OJ000313_39.0419.C31
Gene No.	116214	Strand	-
Start	791	End	1079
Name	OJ000313_39.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	51	End	418
GI	none	Score	113
Exons	51..134, 53..136, 213..407, 230..418, 265..402		

Seq. No.	55468	Seq. ID	OJ000313_39.0419.C31
Gene No.	116214	Strand	-
Start	791	End	1079
Name	OJ000313_39.0419.C31.o1.np	Method	AAT/NAP
Start	791	End	1079
GI	7329678	Score	130
Exons	791..1079		
GI Descrip.	(AL162295) putative protein [Arabidopsis thaliana]		

Seq. No.	55469	Seq. ID	OJ000313_39.0419.C33
Gene No.	116215	Strand	+
Start	353	End	497
Name	OJ000313_39.0419.C33.o1.gs	Method	GENSCAN
Start	353	End	497
GI	none	Score	.57
Exons	353..497		

Seq. No.	55470	Seq. ID	OJ000313_39.0419.C37
Gene No.	116216	Strand	+
Start	139	End	524
Name	OJ000313_39.0419.C37.o1.gs	Method	GENSCAN
Start	139	End	524
GI	none	Score	.57
Exons	139..204, 366..524		

Seq. No.	55471	Seq. ID	OJ000313_39.0419.C40
Gene No.	116217	Strand	-
Start	1336	End	1645
Name	OJ000313_39.0419.C40.o1.gs	Method	GENSCAN
Start	1336	End	1599
GI	none	Score	.59
Exons	1336..1599		

Seq. No.	55471	Seq. ID	OJ000313_39.0419.C40
Gene No.	116217	Strand	-
Start	1336	End	1645
Name	OJ000313_39.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	1336	End	1645
GI	none	Score	86
Exons	1336..1461, 1339..1461, 1467..1571, 1468..1638, 1472..1645, 1558..1632		

Seq. No.	55472	Seq. ID	OJ000313_39.0419.C45
Gene No.	116218	Strand	-
Start	1	End	877
Name	OJ000313_39.0419.C45.o1.np	Method	AAT/NAP
Start	1	End	877
GI	2499488	Score	585
Exons	1..109, 218..383, 499..602, 696..877		
GI Descrip.	PYROPHOSPHATE--FRUCTOSE 6-PHOSPHATE 1-PHOSPHOTRANSFERASE ALPHA SUBUNIT (PFP) (6-PHOSPHOFRUCTOKINASE (PYROPHOSPHATE)) (PYROPHOSPHATE-DEPENDENT 6-PHOSPHOFRUCTOSE-1-KINASE) (PPI-PFK) gi 483547 emb CAA83682 (Z32849) pyrophosphate-dependent phosphofructokinase alpha subunit [Ricinus communis]		

Seq. No.	55472	Seq. ID	OJ000313_39.0419.C45
Gene No.	116218	Strand	-
Start	1	End	877
Name	OJ000313_39.0419.C45.o2.tw	Method	TBLASTX:Wheat
Start	1	End	110
GI	none	Score	161
Exons	1..105, 2..109, 3..110, 3..110		

Seq. No.	55472	Seq. ID	OJ000313_39.0419.C45
Gene No.	116218	Strand	-
Start	1	End	877
Name	OJ000313_39.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	2	End	819
GI	none	Score	152
Exons	2..112, 3..110, 17..112, 203..388, 216..383, 216..389, 480..602, 498..602, 499..603, 499..603, 500..607, 691..819, 695..805, 696..812		

Seq. No.	55472	Seq. ID	OJ000313_39.0419.C45
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Gene No.	116218	Strand	-
Start	1	End	877
Name	OJ000313_39.0419.C45.ol.ts	Method	TBLASTX:Soybean
Start	2	End	815
GI	none	Score	99
Exons	2..112, 3..116, 203..388, 207..383, 498..602, 499..603, 502..603, 696..812, 700..813, 720..815		

Seq. No.	55472	Seq. ID	OJ000313_39.0419.C45
Gene No.	116218	Strand	-
Start	1	End	877
Name	OJ000313_39.0419.C45.ol.tc	Method	TBLASTX:Cress
Start	8	End	343
GI	none	Score	79
Exons	8..112, 18..110, 32..112, 194..280, 203..343, 216..338		

Seq. No.	55472	Seq. ID	OJ000313_39.0419.C45
Gene No.	116218	Strand	-
Start	1	End	877
Name	OJ000313_39.0419.C45.ol.gs	Method	GENSCAN
Start	218	End	812
GI	none	Score	.99
Exons	218..383, 499..602, 696..812		

Seq. No.	55472	Seq. ID	OJ000313_39.0419.C45
Gene No.	116218	Strand	-
Start	1	End	877
Name	OJ000313_39.0419.C45.ol.tw	Method	TBLASTX:Wheat
Start	244	End	603
GI	none	Score	146
Exons	244..378, 245..388, 246..380, 456..602, 498..599, 499..603		

Seq. No.	55473	Seq. ID	OJ000313_39.0419.C46
Gene No.	116219	Strand	+
Start	97	End	303
Name	OJ000313_39.0419.C46.ol.gs	Method	GENSCAN
Start	97	End	303
GI	none	Score	.44
Exons	97..303		

Seq. No.	55473	Seq. ID	OJ000313_39.0419.C46
Gene No.	116220	Strand	-
Start	1	End	781
Name	OJ000313_39.0419.C46.ol.np	Method	AAT/NAP
Start	1	End	781
GI	129881	Score	50
Exons	1..29, 546..616, 731..781		
GI Descrip.	PYROPHOSPHATE--FRUCTOSE 6-PHOSPHATE 1-PHOSPHOTRANSFERASE ALPHA SUBUNIT (PFP) (6-PHOSPHOFRUCTOKINASE (PYROPHOSPHATE)) (PYROPHOSPHATE-DEPENDENT 6-PHOSPHOFRUCTOSE-1-KINASE) (PPI-PFK) gi 482294 pir A36094 pyrophosphate--fructose-6-phosphate 1-phosphotransferase (EC 2.7.1.90) alpha chain - potato (cv. Kennebec) gi 169538 gb AAA63451.1 (M55190) pyrophosphate-fructose 6-		

Seq. No.	55473	Seq. ID	OJ000313_39.0419.C46
Gene No.	116220	Strand	-

Start	1	End	781
Name	OJ000313_39.0419.C46.ol.gp	Method	AAT/GAP
Start	546	End	601
GI	LIB3434-047-P1-K1-G6	Score	67
Exons	546..601		
GI Descrip.	'2499488/sp Q41140 PFPA_RICCO 8.0e-60 PYROPHOSPHATE--FRUCTOSE 6-PHOSPHATE 1-PHOSPHOTRANSFERASE ALPHA SUBUNIT (PFP) (6-PHOSPHOFRUCTOKINASE (PYROPHOSPHATE)) (PYROPHOSPHATE-DEPENDENT 6-PHOSPHOFRUCTOSE-1-KINASE) (PPI-PFK) >gi_483547_emb_CAA83682_ (Z32849) pyrophosphate-dependent phosphofructokinase alpha subunit [Ricinus communis]'		

Seq. No.	55474	Seq. ID	OJ000313_39.0419.C51
Gene No.	116221	Strand	-
Start	319	End	1095
Name	OJ000313_39.0419.C51.ol.gp	Method	AAT/GAP
Start	319	End	915
GI	15819_1.R1084	Score	1159
Exons	319..915		
GI Descrip.	'2462822 4.0e-16 (AF000657) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	55474	Seq. ID	OJ000313_39.0419.C51
Gene No.	116221	Strand	-
Start	319	End	1095
Name	OJ000313_39.0419.C51.ol.np	Method	AAT/NAP
Start	412	End	1095
GI	7329656	Score	259
Exons	412..478, 672..1095		
GI Descrip.	(AL162351) putative protein [Arabidopsis thaliana]		

Seq. No.	55474	Seq. ID	OJ000313_39.0419.C51
Gene No.	116221	Strand	-
Start	319	End	1095
Name	OJ000313_39.0419.C51.ol.ts	Method	TBLASTX:Soybean
Start	636	End	941
GI	none	Score	78
Exons	636..941, 784..927		

Seq. No.	55474	Seq. ID	OJ000313_39.0419.C51
Gene No.	116221	Strand	-
Start	319	End	1095
Name	OJ000313_39.0419.C51.ol.tm	Method	TBLASTX:Maize
Start	798	End	1094
GI	none	Score	322
Exons	798..1094, 798..1094		

Seq. No.	55475	Seq. ID	OJ000313_39.0419.C53
Gene No.	116222	Strand	+
Start	1	End	121
Name	OJ000313_39.0419.C53.ol.gp	Method	AAT/GAP
Start	1	End	121
GI	7406_1.R1084	Score	227
Exons	1..121		
GI Descrip.	'1122315/emb CAA63901 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	55475	Seq. ID	OJ000313_39.0419.C53
Gene No.	116223	Strand	-
Start	380	End	1569
Name	OJ000313_39.0419.C53.o1.gs	Method	GENSCAN
Start	380	End	1525
GI	none	Score	.72
Exons	380..537, 1095..1297, 1302..1349, 1413..1525		

Seq. No.	55475	Seq. ID	OJ000313_39.0419.C53
Gene No.	116223	Strand	-
Start	380	End	1569
Name	OJ000313_39.0419.C53.o1.np	Method	AAT/NAP
Start	558	End	1569
GI	7228438	Score	445
Exons	558..818, 1533..1569		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	55475	Seq. ID	OJ000313_39.0419.C53
Gene No.	116223	Strand	-
Start	380	End	1569
Name	OJ000313_39.0419.C53.o2.np	Method	AAT/NAP
Start	1063	End	1569
GI	5441880	Score	584
Exons	1063..1297, 1413..1569		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	55476	Seq. ID	OJ000313_39.0419.C55
Gene No.	116224	Strand	+
Start	202	End	347
Name	OJ000313_39.0419.C55.o1.gs	Method	GENSCAN
Start	202	End	347
GI	none	Score	.53
Exons	202..347		

Seq. No.	55476	Seq. ID	OJ000313_39.0419.C55
Gene No.	116225	Strand	+
Start	1041	End	1295
Name	OJ000313_39.0419.C55.o2.tm	Method	TBLASTX:Maize
Start	707	End	1054
GI	none	Score	162
Exons	707..961, 714..920, 734..961, 997..1053, 1004..1054		

Seq. No.	55476	Seq. ID	OJ000313_39.0419.C55
Gene No.	116225	Strand	+
Start	1041	End	1295
Name	OJ000313_39.0419.C55.o1.ts	Method	TBLASTX:Soybean
Start	1035	End	1295
GI	none	Score	302
Exons	1035..1295, 1064..1294		

Seq. No.	55476	Seq. ID	OJ000313_39.0419.C55
Gene No.	116225	Strand	+
Start	1041	End	1295

Name	OJ000313_39.0419.C55.o1.np	Method	AAT/NAP
Start	1041	End	1295
GI	7446373	Score	341
Exons	1041..1295		
GI Descrip.	probable serine/threonine protein kinase (EC 2.7.1.-) SNFL3 - sorghum gi 3256035 emb CAA74646.1 (Y14274) putative serine/threonine protein kinase [Sorghum bicolor]		

Seq. No.	55476	Seq. ID	OJ000313_39.0419.C55
Gene No.	116225	Strand	+
Start	1041	End	1295
Name	OJ000313_39.0419.C55.o1.tc	Method	TBLASTX:Cress
Start	1055	End	1295
GI	none	Score	293
Exons	1055..1294, 1056..1295		

Seq. No.	55476	Seq. ID	OJ000313_39.0419.C55
Gene No.	116225	Strand	+
Start	1041	End	1295
Name	OJ000313_39.0419.C55.o1.tm	Method	TBLASTX:Maize
Start	1056	End	1295
GI	none	Score	312
Exons	1056..1295, 1059..1184, 1076..1285		

Seq. No.	55476	Seq. ID	OJ000313_39.0419.C55
Gene No.	116225	Strand	+
Start	1041	End	1295
Name	OJ000313_39.0419.C55.o1.tw	Method	TBLASTX:Wheat
Start	1061	End	1262
GI	none	Score	203
Exons	1061..1255, 1065..1262		

Seq. No.	55477	Seq. ID	OJ000313_39.0419.C56
Gene No.	116226	Strand	-
Start	835	End	2145
Name	OJ000313_39.0419.C56.o1.gp	Method	AAT/GAP
Start	335	End	2145
GI	993_1.R1084	Score	2637
Exons	335..1138, 1499..1811, 1919..2145		
GI Descrip.	'1041710 1.0e-121 (U30477) expansin Os-EXP2 [Oryza sativa]'		

Seq. No.	55477	Seq. ID	OJ000313_39.0419.C56
Gene No.	116226	Strand	-
Start	835	End	2145
Name	OJ000313_39.0419.C56.o2.tm	Method	TBLASTX:Maize
Start	482	End	952
GI	none	Score	43
Exons	482..502, 513..599, 523..555, 646..693, 663..734, 666..698, 687..743, 694..753, 836..868, 837..869, 839..952, 871..951		

Seq. No.	55477	Seq. ID	OJ000313_39.0419.C56
Gene No.	116226	Strand	-
Start	835	End	2145
Name	OJ000313_39.0419.C56.o1.gs	Method	GENSCAN
Start	835	End	2057
GI	none	Score	.99
Exons	835..1138, 1499..1811, 1919..2057		

Seq. No.	55477	Seq. ID	OJ000313_39.0419.C56
Gene No.	116226	Strand	-
Start	835	End	2145
Name	OJ000313_39.0419.C56.o2.tc	Method	TBLASTX:Cress
Start	836	End	1029
GI	none	Score	197
Exons	836..1027, 871..1029		

Seq. No.	55477	Seq. ID	OJ000313_39.0419.C56
Gene No.	116226	Strand	-
Start	835	End	2145
Name	OJ000313_39.0419.C56.o1.np	Method	AAT/NAP
Start	838	End	2057
GI	7489471	Score	1301
Exons	838..1138, 1499..1811, 1919..2057		
GI Descrip.	expansin 2 - rice gi 1041710 gb AAB38074.1 (U30477) expansin Os-EXP2 [Oryza sativa]		

Seq. No.	55477	Seq. ID	OJ000313_39.0419.C56
Gene No.	116226	Strand	-
Start	835	End	2145
Name	OJ000313_39.0419.C56.o1.ts	Method	TBLASTX:Soybean
Start	839	End	1980
GI	none	Score	361
Exons	839..1141, 871..1140, 1498..1812, 1499..1813, 1745..1825, 1917..1979, 1918..1980		

Seq. No.	55477	Seq. ID	OJ000313_39.0419.C56
Gene No.	116226	Strand	-
Start	835	End	2145
Name	OJ000313_39.0419.C56.o1.tm	Method	TBLASTX:Maize
Start	953	End	1986
GI	none	Score	310
Exons	953..1141, 958..1140, 1466..1813, 1498..1566, 1498..1710, 1498..1812, 1499..1711, 1678..1725, 1745..1825, 1764..1841, 1917..1985, 1918..1986		

Seq. No.	55477	Seq. ID	OJ000313_39.0419.C56
Gene No.	116226	Strand	-
Start	835	End	2145
Name	OJ000313_39.0419.C56.o1.tw	Method	TBLASTX:Wheat
Start	967	End	1641
GI	none	Score	131
Exons	967..1140, 968..1147, 1017..1148, 1498..1641		

Seq. No.	55477	Seq. ID	OJ000313_39.0419.C56
Gene No.	116226	Strand	-
Start	835	End	2145
Name	OJ000313_39.0419.C56.o1.tc	Method	TBLASTX:Cress
Start	1033	End	2129
GI	none	Score	142
Exons	1033..1140, 1040..1144, 1498..1812, 1499..1813, 1917..1979, 1918..1980, 2055..2129		

Seq. No.	55478	Seq. ID	OJ000313_39.0419.C58
Gene No.	116227	Strand	+

Start	1038	End	1660
Name	OJ000313_39.0419.C58.o1.gp	Method	AAT/GAP
Start	1038	End	1611
GI	11446_1.R1084	Score	1036
Exons	1038..1611		
GI Descrip.	'5830788/emb CAB54874.1 2.0e-47 (AL117188) thioredoxin reductase (NADPH) 2 [Arabidopsis thaliana]'		

Seq. No.	55478	Seq. ID	OJ000313_39.0419.C58
Gene No.	116227	Strand	+
Start	1038	End	1660
Name	OJ000313_39.0419.C58.o1.tm	Method	TBLASTX:Maize
Start	1168	End	1483
GI	none	Score	492
Exons	1168..1479, 1169..1483		

Seq. No.	55478	Seq. ID	OJ000313_39.0419.C58
Gene No.	116227	Strand	+
Start	1038	End	1660
Name	OJ000313_39.0419.C58.o1.np	Method	AAT/NAP
Start	1178	End	1660
GI	7488370	Score	602
Exons	1178..1660		
GI Descrip.	thioredoxin reductase (NADPH) (EC 1.6.4.5) 2 - Arabidopsis thaliana gi 5830788 emb CAB54874.1 (AL117188) thioredoxin reductase (NADPH) 2 [Arabidopsis thaliana] gi 7270497 emb CAB80262.1 (AL161587) thioredoxin reductase (NADPH) 2 [Arabidopsis thaliana]		

Seq. No.	55478	Seq. ID	OJ000313_39.0419.C58
Gene No.	116227	Strand	+
Start	1038	End	1660
Name	OJ000313_39.0419.C58.o1.tc	Method	TBLASTX:Cress
Start	1199	End	1660
GI	none	Score	420
Exons	1199..1573, 1201..1479, 1568..1660, 1582..1659		

Seq. No.	55478	Seq. ID	OJ000313_39.0419.C58
Gene No.	116227	Strand	+
Start	1038	End	1660
Name	OJ000313_39.0419.C58.o1.ts	Method	TBLASTX:Soybean
Start	1199	End	1501
GI	none	Score	450
Exons	1199..1501, 1201..1482		

Seq. No.	55478	Seq. ID	OJ000313_39.0419.C58
Gene No.	116227	Strand	+
Start	1038	End	1660
Name	OJ000313_39.0419.C58.o2.tm	Method	TBLASTX:Maize
Start	1484	End	1660
GI	none	Score	210
Exons	1484..1660, 1549..1656		

Seq. No.	55479	Seq. ID	OJ000313_39.0419.C61
Gene No.	116228	Strand	+
Start	1	End	1236
Name	OJ000313_39.0419.C61.o1.np	Method	AAT/NAP

Start	1	End	1236
GI	5734621	Score	71
Exons	1..266, 1200..1236		
GI Descrip.	(AP000391) ESTs AU067992(C11433), AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]		

Seq. No.	55480	Seq. ID	OJ000313_39.0419.C63
Gene No.	116229	Strand	+
Start	1	End	1095
Name	OJ000313_39.0419.C63.o1.gp	Method	AAT/GAP
Start	1	End	460
GI	none	Score	903
Exons	1..460		

Seq. No.	55480	Seq. ID	OJ000313_39.0419.C63
Gene No.	116229	Strand	+
Start	1	End	1095
Name	OJ000313_39.0419.C63.o1.gs	Method	GENSCAN
Start	35	End	1087
GI	none	Score	.96
Exons	35..1087		

Seq. No.	55480	Seq. ID	OJ000313_39.0419.C63
Gene No.	116229	Strand	+
Start	1	End	1095
Name	OJ000313_39.0419.C63.o1.np	Method	AAT/NAP
Start	92	End	1095
GI	5545339	Score	462
Exons	92..1095		
GI Descrip.	(AB030083) lectin-like protein kinase [Populus nigra]		

Seq. No.	55481	Seq. ID	OJ000313_39.0419.C66
Gene No.	116230	Strand	+
Start	46	End	838
Name	OJ000313_39.0419.C66.o1.gs	Method	GENSCAN
Start	46	End	838
GI	none	Score	.71
Exons	46..182, 550..838		

Seq. No.	55481	Seq. ID	OJ000313_39.0419.C66
Gene No.	116230	Strand	+
Start	46	End	838
Name	OJ000313_39.0419.C66.o1.tm	Method	TBLASTX:Maize
Start	336	End	801
GI	none	Score	107
Exons	336..449, 336..449, 337..450, 338..472, 541..621, 542..622, 597..659, 682..729, 683..730, 775..801, 776..799		

Seq. No.	55482	Seq. ID	OJ000313_39.0419.C71
Gene No.	116231	Strand	+
Start	1	End	473
Name	OJ000313_39.0419.C71.o1.np	Method	AAT/NAP
Start	1	End	452
GI	4218008	Score	103
Exons	1..452		
GI Descrip.	(AC006135) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55482	Seq. ID	OJ000313_39.0419.C71
Gene No.	116231	Strand	+
Start	1	End	473
Name	OJ000313_39.0419.C71.o1.gs	Method	GENSCAN
Start	42	End	473
GI	none	Score	.77
Exons	42..473		

Seq. No.	55483	Seq. ID	OJ000313_39.0419.C74
Gene No.	116232	Strand	-
Start	894	End	967
Name	OJ000313_39.0419.C74.o1.gs	Method	GENSCAN
Start	894	End	967
GI	none	Score	.95
Exons	894..967		

Seq. No.	55484	Seq. ID	OJ000313_39.0419.C76
Gene No.	116233	Strand	+
Start	381	End	467
Name	OJ000313_39.0419.C76.o1.gs	Method	GENSCAN
Start	381	End	467
GI	none	Score	.82
Exons	381..467		

Seq. No.	55484	Seq. ID	OJ000313_39.0419.C76
Gene No.	116234	Strand	-
Start	1415	End	2275
Name	OJ000313_39.0419.C76.o1.np	Method	AAT/NAP
Start	1406	End	2275
GI	5306268	Score	415
Exons	1406..1573, 1665..1848, 1921..1985, 2086..2275		
GI Descrip.	(AC006233) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55484	Seq. ID	OJ000313_39.0419.C76
Gene No.	116234	Strand	-
Start	1415	End	2275
Name	OJ000313_39.0419.C76.o2.gs	Method	GENSCAN
Start	1415	End	2147
GI	none	Score	1
Exons	1415..1573, 1665..1856, 1935..2147		

Seq. No.	55484	Seq. ID	OJ000313_39.0419.C76
Gene No.	116235	Strand	-
Start	3093	End	3883
Name	OJ000313_39.0419.C76.o1.tm	Method	TBLASTX:Maize
Start	1493	End	2061
GI	none	Score	75
Exons	1493..1582, 1494..1574, 1662..1796, 1663..1794, 1914..2015, 1933..2061		

Seq. No.	55484	Seq. ID	OJ000313_39.0419.C76
Gene No.	116235	Strand	-
Start	3093	End	3883
Name	OJ000313_39.0419.C76.o2.tc	Method	TBLASTX:Cress
Start	1662	End	1985
GI	none	Score	122

Exons 1662..1796, 1663..1794, 1932..1985, 1936..1983

Seq. No.	55484	Seq. ID	OJ000313_39.0419.C76
Gene No.	116235	Strand	-
Start	3093	End	3883
Name	OJ000313_39.0419.C76.o3.gs	Method	GENSCAN
Start	3093	End	3883
GI	none	Score	.9
Exons	3093..3121, 3541..3883		

Seq. No.	55484	Seq. ID	OJ000313_39.0419.C76
Gene No.	116235	Strand	-
Start	3093	End	3883
Name	OJ000313_39.0419.C76.o1.tw	Method	TBLASTX:Wheat
Start	3501	End	3803
GI	none	Score	148
Exons	3501..3671, 3510..3671, 3542..3673, 3659..3802, 3660..3803		

Seq. No.	55484	Seq. ID	OJ000313_39.0419.C76
Gene No.	116235	Strand	-
Start	3093	End	3883
Name	OJ000313_39.0419.C76.o1.tc	Method	TBLASTX:Cress
Start	3510	End	3803
GI	none	Score	135
Exons	3510..3662, 3542..3673, 3702..3803, 3731..3802		

Seq. No.	55484	Seq. ID	OJ000313_39.0419.C76
Gene No.	116235	Strand	-
Start	3093	End	3883
Name	OJ000313_39.0419.C76.o2.np	Method	AAT/NAP
Start	3527	End	3874
GI	4895197	Score	199
Exons	3527..3874		
GI Descrip.	(AC007661) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55484	Seq. ID	OJ000313_39.0419.C76
Gene No.	116235	Strand	-
Start	3093	End	3883
Name	OJ000313_39.0419.C76.o2.tm	Method	TBLASTX:Maize
Start	3540	End	3803
GI	none	Score	97
Exons	3540..3671, 3542..3616, 3542..3673, 3543..3671, 3659..3802, 3660..3803		

Seq. No.	55484	Seq. ID	OJ000313_39.0419.C76
Gene No.	116235	Strand	-
Start	3093	End	3883
Name	OJ000313_39.0419.C76.o1.ts	Method	TBLASTX:Soybean
Start	3542	End	3788
GI	none	Score	131
Exons	3542..3673, 3543..3659, 3659..3787, 3681..3788		

Seq. No.	55485	Seq. ID	OJ000313_39.0419.C77
Gene No.	116236	Strand	-
Start	421	End	2435
Name	OJ000313_39.0419.C77.o1.gs	Method	GENSCAN
Start	421	End	2435

GI none Score .64
Exons 421..440, 1071..1231, 1379..1427, 2102..2435

Seq. No. 55485 Seq. ID OJ000313_39.0419.C77
Gene No. 116236 Strand -
Start 421 End 2435
Name OJ000313_39.0419.C77.o1.np Method AAT/NAP
Start 2088 End 2432
GI 4895197 Score 242
Exons 2088..2432
GI Descrip. (AC007661) hypothetical protein [Arabidopsis thaliana]

Seq. No. 55485 Seq. ID OJ000313_39.0419.C77
Gene No. 116237 Strand -
Start 3406 End 3512
Name OJ000313_39.0419.C77.o1.tc Method TBLASTX:Cress
Start 2103 End 2369
GI none Score 128
Exons 2103..2234, 2104..2229, 2250..2369, 2257..2340

Seq. No. 55485 Seq. ID OJ000313_39.0419.C77
Gene No. 116237 Strand -
Start 3406 End 3512
Name OJ000313_39.0419.C77.o1.tm Method TBLASTX:Maize
Start 2103 End 2366
GI none Score 348
Exons 2103..2366, 2104..2346

Seq. No. 55485 Seq. ID OJ000313_39.0419.C77
Gene No. 116237 Strand -
Start 3406 End 3512
Name OJ000313_39.0419.C77.o1.ts Method TBLASTX:Soybean
Start 2103 End 2369
GI none Score 132
Exons 2103..2234, 2104..2229, 2235..2348, 2349..2369

Seq. No. 55485 Seq. ID OJ000313_39.0419.C77
Gene No. 116237 Strand -
Start 3406 End 3512
Name OJ000313_39.0419.C77.o1.tw Method TBLASTX:Wheat
Start 2103 End 2369
GI none Score 180
Exons 2103..2300, 2104..2232, 2196..2234, 2235..2369, 2239..2340

Seq. No. 55485 Seq. ID OJ000313_39.0419.C77
Gene No. 116237 Strand -
Start 3406 End 3512
Name OJ000313_39.0419.C77.o2.gs Method GENSCAN
Start 3406 End 3512
GI none Score .94
Exons 3406..3512

Seq. No. 55486 Seq. ID OJ000313_39.0419.C78
Gene No. 116238 Strand -
Start 1823 End 3321
Name OJ000313_39.0419.C78.o2.gs Method GENSCAN
Start 1823 End 3321

GI	none	Score	.77
Exons	1823..2028, 2418..2437, 3118..3321		
Seq. No.	55487	Seq. ID	OJ000313_39.0419.C81
Gene No.	116239	Strand	+
Start	852	End	1004
Name	OJ000313_39.0419.C81.o1.gp	Method	AAT/GAP
Start	753	End	1004
GI	26857_1.R1084	Score	460
Exons	753..1004		
GI Descrip.	'6093512/sp Q39950 NLTP_HELAN 1.0e-16 NONSPECIFIC LIPID-TRANSFER PROTEIN PRECURSOR (LTP) (NSLTP) (SDI-9) >gi_1050918_emb_CAA63340_ (X92648) lipid transfer protein [Helianthus annuus]'		

Seq. No.	55487	Seq. ID	OJ000313_39.0419.C81
Gene No.	116239	Strand	+
Start	852	End	1004
Name	OJ000313_39.0419.C81.o1.np	Method	AAT/NAP
Start	849	End	1004
GI	6492243	Score	173
Exons	849..1004		
GI Descrip.	(AF109195) lipid transfer protein [Hordeum vulgare]		

Seq. No.	55487	Seq. ID	OJ000313_39.0419.C81
Gene No.	116239	Strand	+
Start	852	End	1004
Name	OJ000313_39.0419.C81.o2.gs	Method	GENSCAN
Start	852	End	979
GI	none	Score	.98
Exons	852..979		

Seq. No.	55487	Seq. ID	OJ000313_39.0419.C81
Gene No.	116240	Strand	-
Start	276	End	585
Name	OJ000313_39.0419.C81.o1.gs	Method	GENSCAN
Start	276	End	585
GI	none	Score	.42
Exons	276..374, 466..585		

Seq. No.	55488	Seq. ID	OJ000313_39.0419.C83
Gene No.	116241	Strand	+
Start	984	End	3992
Name	OJ000313_39.0419.C83.o1.np	Method	AAT/NAP
Start	984	End	3992
GI	1946372	Score	233
Exons	984..1104, 2706..2831, 3896..3992		
GI Descrip.	(U93215) putative integral membrane protein [Arabidopsis thaliana]		

Seq. No.	55488	Seq. ID	OJ000313_39.0419.C83
Gene No.	116241	Strand	+
Start	984	End	3992
Name	OJ000313_39.0419.C83.o2.np	Method	AAT/NAP
Start	3221	End	3992
GI	7523696	Score	191
Exons	3221..3288, 3541..3681, 3973..3992		

GI Descrip. (AC011001) Hypothetical protein [Arabidopsis thaliana]

Seq. No.	55488	Seq. ID	OJ000313_39.0419.C83
Gene No.	116242	Strand	-
Start	305	End	3717
Name	OJ000313_39.0419.C83.ol.gs	Method	GENSCAN
Start	305	End	2206
GI	none	Score	.58
Exons	305..494, 629..800, 893..1148, 1766..2206		

Seq. No.	55488	Seq. ID	OJ000313_39.0419.C83
Gene No.	116242	Strand	-
Start	305	End	3717
Name	OJ000313_39.0419.C83.ol.tm	Method	TBLASTX:Maize
Start	1011	End	3717
GI	none	Score	74
Exons	1011..1103, 2677..2889, 2701..2889, 2708..2893, 3215..3286, 3535..3717, 3539..3682		

Seq. No.	55489	Seq. ID	OJ000313_39.0419.C84
Gene No.	116243	Strand	+
Start	149	End	1030
Name	OJ000313_39.0419.C84.ol.gp	Method	AAT/GAP
Start	149	End	943
GI	599_2.R1084	Score	565
Exons	149..264, 354..446, 547..631, 813..943		
GI Descrip.	'1350969/sp P49216 RS26_ORYSA 2.0e-41 40S RIBOSOMAL PROTEIN S26 (S31) >gi_971284_dbj_BAA07208_ (D38011) ribosomal protein S31 [Oryza sativa]'		

Seq. No.	55489	Seq. ID	OJ000313_39.0419.C84
Gene No.	116243	Strand	+
Start	149	End	1030
Name	OJ000313_39.0419.C84.ol.gs	Method	GENSCAN
Start	262	End	943
GI	none	Score	.96
Exons	262..264, 354..446, 547..631, 813..943		

Seq. No.	55489	Seq. ID	OJ000313_39.0419.C84
Gene No.	116243	Strand	+
Start	149	End	1030
Name	OJ000313_39.0419.C84.ol.np	Method	AAT/NAP
Start	351	End	1030
GI	1350969	Score	448
Exons	351..446, 547..631, 813..1030		
GI Descrip.	40S RIBOSOMAL PROTEIN S26 (S31) gi 971284 dbj BAA07208 (D38011) ribosomal protein S31 [Oryza sativa]		

Seq. No.	55489	Seq. ID	OJ000313_39.0419.C84
Gene No.	116243	Strand	+
Start	149	End	1030
Name	OJ000313_39.0419.C84.ol.tm	Method	TBLASTX:Maize
Start	352	End	945
GI	none	Score	146
Exons	352..447, 353..448, 398..469, 544..633, 546..632, 808..888, 812..883, 812..943, 814..945		

Seq. No.	55489	Seq. ID	OJ000313_39.0419.C84
Gene No.	116243	Strand	+
Start	149	End	1030
Name	OJ000313_39.0419.C84.ol.ts	Method	TBLASTX:Soybean
Start	352	End	934
GI	none	Score	135
Exons	352..447, 353..451, 398..457, 544..630, 546..623, 815..883, 815..934		

Seq. No.	55490	Seq. ID	OJ000313_39.0419.C89
Gene No.	116244	Strand	-
Start	695	End	868
Name	OJ000313_39.0419.C89.ol.gs	Method	GENSCAN
Start	695	End	868
GI	none	Score	.93
Exons	695..868		

Seq. No.	55491	Seq. ID	OJ000313_39.0419.C98
Gene No.	116245	Strand	-
Start	47	End	722
Name	OJ000313_39.0419.C98.ol.gs	Method	GENSCAN
Start	47	End	722
GI	none	Score	.5
Exons	47..156, 690..722		

Seq. No.	55492	Seq. ID	OJ000313_39.0419.C107
Gene No.	116246	Strand	+
Start	415	End	664
Name	OJ000313_39.0419.C107.ol.gs	Method	GENSCAN
Start	415	End	664
GI	none	Score	.43
Exons	415..441, 464..664		

Seq. No.	55493	Seq. ID	OJ000313_39.0419.C108
Gene No.	116247	Strand	-
Start	675	End	1086
Name	OJ000313_39.0419.C108.ol.gs	Method	GENSCAN
Start	675	End	1086
GI	none	Score	.58
Exons	675..806, 865..1086		

Seq. No.	55494	Seq. ID	OJ000313_39.0419.C111
Gene No.	116248	Strand	+
Start	131	End	385
Name	OJ000313_39.0419.C111.ol.gs	Method	GENSCAN
Start	131	End	385
GI	none	Score	.93
Exons	131..385		

Seq. No.	55495	Seq. ID	OJ000313_39.0419.C114
Gene No.	116249	Strand	+
Start	1	End	103
Name	OJ000313_39.0419.C114.ol.np	Method	AAT/NAP
Start	1	End	103
GI	6815053	Score	138
Exons	1..103		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	55495	Seq. ID	OJ000313_39.0419.C114
Gene No.	116250	Strand	+
Start	285	End	505
Name	OJ000313_39.0419.C114.o1.gs	Method	GENSCAN
Start	285	End	505
GI	none	Score	.47
Exons	285..505		

Seq. No.	55496	Seq. ID	OJ000313_39.0419.C115
Gene No.	116251	Strand	-
Start	2	End	630
Name	OJ000313_39.0419.C115.o1.gs	Method	GENSCAN
Start	2	End	630
GI	none	Score	.45
Exons	2..142, 517..630		

Seq. No.	55497	Seq. ID	OJ000313_39.0419.C116
Gene No.	116252	Strand	+
Start	689	End	1067
Name	OJ000313_39.0419.C116.o1.np	Method	AAT/NAP
Start	689	End	1067
GI	7452443	Score	225
Exons	689..1067		
GI Descrip.	hypothetical protein F1C12.90 - Arabidopsis thaliana gi 2982434 emb CAA18242.1 (AL022224) putative protein [Arabidopsis thaliana] gi 7268812 emb CAB79017.1 (AL161552) putative protein [Arabidopsis thaliana]		

Seq. No.	55497	Seq. ID	OJ000313_39.0419.C116
Gene No.	116252	Strand	+
Start	689	End	1067
Name	OJ000313_39.0419.C116.o1.gs	Method	GENSCAN
Start	713	End	1058
GI	none	Score	.99
Exons	713..1058		

Seq. No.	55497	Seq. ID	OJ000313_39.0419.C116
Gene No.	116253	Strand	+
Start	2089	End	2204
Name	OJ000313_39.0419.C116.o3.gp	Method	AAT/GAP
Start	2089	End	2204
GI	none	Score	183
Exons	2089..2204		

Seq. No.	55497	Seq. ID	OJ000313_39.0419.C116
Gene No.	116254	Strand	-
Start	712	End	923
Name	OJ000313_39.0419.C116.o1.gp	Method	AAT/GAP
Start	712	End	923
GI	LIB3433-043-P1-K1-E5	Score	403
Exons	712..923		
GI Descrip.	'2982434/emb CAA18242.1 9.0e-58 (AL022224) putative protein [Arabidopsis thaliana]'		

Seq. No.	55497	Seq. ID	OJ000313_39.0419.C116
Gene No.	116255	Strand	-

Start	1690	End	2117
Name	OJ000313_39.0419.C116.o1.ts	Method	TBLASTX:Soybean
Start	704	End	1046
GI	none	Score	115
Exons	704..886, 710..886, 711..929, 918..1046		
Seq. No.	55497	Seq. ID	OJ000313_39.0419.C116
Gene No.	116255	Strand	-
Start	1690	End	2117
Name	OJ000313_39.0419.C116.o1.tm	Method	TBLASTX:Maize
Start	715	End	1016
GI	none	Score	413
Exons	715..969, 716..970, 717..971, 966..1016		
Seq. No.	55497	Seq. ID	OJ000313_39.0419.C116
Gene No.	116255	Strand	-
Start	1690	End	2117
Name	OJ000313_39.0419.C116.o2.gs	Method	GENSCAN
Start	1690	End	2117
GI	none	Score	.86
Exons	1690..2049, 2094..2117		
Seq. No.	55498	Seq. ID	OJ000313_39.0419.C123
Gene No.	116256	Strand	-
Start	816	End	1010
Name	OJ000313_39.0419.C123.o1.gs	Method	GENSCAN
Start	816	End	1010
GI	none	Score	.42
Exons	816..943, 968..1010		
Seq. No.	55499	Seq. ID	OJ000323_34.0420.C6
Gene No.	116257	Strand	-
Start	143	End	870
Name	OJ000323_34.0420.C6.o1.gs	Method	GENSCAN
Start	143	End	762
GI	none	Score	.43
Exons	143..166, 645..762		
Seq. No.	55499	Seq. ID	OJ000323_34.0420.C6
Gene No.	116257	Strand	-
Start	143	End	870
Name	OJ000323_34.0420.C6.o1.np	Method	AAT/NAP
Start	456	End	870
GI	6630550	Score	119
Exons	456..870		
GI Descrip.	(AC011708) putative bZIP transcription factor [Arabidopsis thaliana]		
Seq. No.	55499	Seq. ID	OJ000323_34.0420.C6
Gene No.	116257	Strand	-
Start	143	End	870
Name	OJ000323_34.0420.C6.o1.tm	Method	TBLASTX:Maize
Start	457	End	801
GI	none	Score	196
Exons	457..666, 461..640, 463..669, 679..801, 692..784, 696..791		
Seq. No.	55500	Seq. ID	OJ000323_34.0420.C7

Gene No.	116258	Strand	+
Start	3364	End	3906
Name	OJ000323_34.0420.C7.o2.gs	Method	GENSCAN
Start	3364	End	3906
GI	none	Score	.89
Exons	3364..3906		

Seq. No.	55500	Seq. ID	OJ000323_34.0420.C7
Gene No.	116259	Strand	+
Start	4354	End	4717
Name	OJ000323_34.0420.C7.o1.gp	Method	AAT/GAP
Start	4354	End	4717
GI	uC-osrocyp031c04b1	Score	597
Exons	4354..4717		
GI Descrip.	'1707032 2.0e-15 (U80445) coded for by C. elegans cDNA yk13g5.3; coded for by C. elegans cDNA yk21g6.3; coded for by C. elegans cDNA CEMSE18F; coded for by C. elegans cDNA yk126b1.3; coded for by C. elegans cDNA yk65h8.3; coded for by C. elegans cDNA yk65h8'		

Seq. No.	55500	Seq. ID	OJ000323_34.0420.C7
Gene No.	116260	Strand	-
Start	1150	End	5005
Name	OJ000323_34.0420.C7.o1.np	Method	AAT/NAP
Start	1003	End	3768
GI	7487237	Score	365
Exons	1003..1069, 1254..2353, 3658..3768		
GI Descrip.	hypothetical protein T20B5.15 - Arabidopsis thaliana gi 2623309 gb AAB86455.1 (AC002409) putative TGACG-sequence-specific bZIP DNA-binding protein [Arabidopsis thaliana]		

Seq. No.	55500	Seq. ID	OJ000323_34.0420.C7
Gene No.	116260	Strand	-
Start	1150	End	5005
Name	OJ000323_34.0420.C7.o1.gs	Method	GENSCAN
Start	1150	End	2494
GI	none	Score	.94
Exons	1150..1166, 1249..2494		

Seq. No.	55500	Seq. ID	OJ000323_34.0420.C7
Gene No.	116260	Strand	-
Start	1150	End	5005
Name	OJ000323_34.0420.C7.o1.tm	Method	TBLASTX:Maize
Start	1247	End	1862
GI	none	Score	127
Exons	1247..1339, 1248..1337, 1253..1339, 1340..1402, 1340..1420, 1341..1412, 1415..1834, 1417..1506, 1448..1774, 1467..1832, 1775..1861, 1803..1862		

Seq. No.	55500	Seq. ID	OJ000323_34.0420.C7
Gene No.	116260	Strand	-
Start	1150	End	5005
Name	OJ000323_34.0420.C7.o1.ts	Method	TBLASTX:Soybean
Start	3643	End	5005
GI	none	Score	186
Exons	3643..3768, 3645..3803, 4967..5005		

Seq. No.	55501	Seq. ID	OJ000323_34.0420.C8
Gene No.	116261	Strand	+
Start	70	End	590
Name	OJ000323_34.0420.C8.o1.gs	Method	GENSCAN
Start	70	End	590
GI	none	Score	.98
Exons	70..242, 483..590		

Seq. No.	55501	Seq. ID	OJ000323_34.0420.C8
Gene No.	116262	Strand	+
Start	2097	End	3121
Name	OJ000323_34.0420.C8.o2.gs	Method	GENSCAN
Start	2097	End	3121
GI	none	Score	.77
Exons	2097..2252, 2697..2804, 2903..3121		

Seq. No.	55501	Seq. ID	OJ000323_34.0420.C8
Gene No.	116263	Strand	-
Start	745	End	1148
Name	OJ000323_34.0420.C8.o1.gp	Method	AAT/GAP
Start	745	End	1148
GI	LIB3474-002-P1-K1-C3	Score	.808
Exons	745..1148		
GI Descrip.	*1707032 2.0e-15 (U80445) coded for by C. elegans cDNA yk13g5.3; coded for by C. elegans cDNA yk21g6.3; coded for by C. elegans cDNA CEMSE18F; coded for by C. elegans cDNA yk126b1.3; coded for by C. elegans cDNA yk65h8.3; coded for by C. elegans cDNA yk65h8'		

Seq. No.	55502	Seq. ID	OJ000323_34.0420.C9
Gene No.	116264	Strand	+
Start	81	End	1655
Name	OJ000323_34.0420.C9.o1.gs	Method	GENSCAN
Start	81	End	1655
GI	none	Score	.83
Exons	81..668, 1010..1159, 1272..1655		

Seq. No.	55503	Seq. ID	OJ000323_34.0420.C10
Gene No.	116265	Strand	+
Start	344	End	4462
Name	OJ000323_34.0420.C10.o1.gs	Method	GENSCAN
Start	344	End	4229
GI	none	Score	.48
Exons	344..395, 1981..2357, 2435..2683, 3357..3458, 3817..4110, 4167..4229		

Seq. No.	55503	Seq. ID	OJ000323_34.0420.C10
Gene No.	116265	Strand	+
Start	344	End	4462
Name	OJ000323_34.0420.C10.o1.gp	Method	AAT/GAP
Start	3904	End	4462
GI	none	Score	1021
Exons	3904..4462		

Seq. No.	55503	Seq. ID	OJ000323_34.0420.C10
Gene No.	116266	Strand	+

Start	6408	End	8535
Name	OJ000323_34.0420.C10.o1.np	Method	AAT/NAP
Start	6408	End	8535
GI	4680183	Score	3442
Exons	6408..8535		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	55503	Seq. ID	OJ000323_34.0420.C10
Gene No.	116266	Strand	+
Start	6408	End	8535
Name	OJ000323_34.0420.C10.o2.gs	Method	GENSCAN
Start	6408	End	8482
GI	none	Score	.87
Exons	6408..8482		

Seq. No.	55503	Seq. ID	OJ000323_34.0420.C10
Gene No.	116266	Strand	+
Start	6408	End	8535
Name	OJ000323_34.0420.C10.o1.tw	Method	TBLASTX:Wheat
Start	7694	End	8096
GI	none	Score	283
Exons	7694..7963, 7695..8096		

Seq. No.	55504	Seq. ID	OJ000323_34.0420.C11
Gene No.	116267	Strand	+
Start	157	End	2512
Name	OJ000323_34.0420.C11.o5.tw	Method	TBLASTX:Wheat
Start	18	End	474
GI	none	Score	252
Exons	18..254, 22..252, 301..474		

Seq. No.	55504	Seq. ID	OJ000323_34.0420.C11
Gene No.	116267	Strand	+
Start	157	End	2512
Name	OJ000323_34.0420.C11.o4.tm	Method	TBLASTX:Maize
Start	105	End	252
GI	none	Score	183
Exons	105..251, 106..252		

Seq. No.	55504	Seq. ID	OJ000323_34.0420.C11
Gene No.	116267	Strand	+
Start	157	End	2512
Name	OJ000323_34.0420.C11.o1.gs	Method	GENSCAN
Start	157	End	2501
GI	none	Score	.41
Exons	157..330, 466..2501		

Seq. No.	55504	Seq. ID	OJ000323_34.0420.C11
Gene No.	116267	Strand	+
Start	157	End	2512
Name	OJ000323_34.0420.C11.o1.tw	Method	TBLASTX:Wheat
Start	474	End	930
GI	none	Score	496
Exons	474..929, 475..930		

Seq. No.	55504	Seq. ID	OJ000323_34.0420.C11
Gene No.	116267	Strand	+

Start	157	End	2512
Name	OJ000323_34.0420.C11.o3.ts	Method	TBLASTX:Soybean
Start	514	End	879
GI	none	Score	138
Exons	514...738, 745...879		

Seq. No.	55504	Seq. ID	OJ000323_34.0420.C11
Gene No.	116267	Strand	+
Start	157	End	2512
Name	OJ000323_34.0420.C11.o1.np	Method	AAT/NAP
Start	529	End	2512
GI	5902445	Score	3395
Exons	529...2512		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	55504	Seq. ID	OJ000323_34.0420.C11
Gene No.	116267	Strand	+
Start	157	End	2512
Name	OJ000323_34.0420.C11.o2.tm	Method	TBLASTX:Maize
Start	604	End	960
GI	none	Score	367
Exons	604...960, 645...950, 667...960		

Seq. No.	55504	Seq. ID	OJ000323_34.0420.C11
Gene No.	116267	Strand	+
Start	157	End	2512
Name	OJ000323_34.0420.C11.o2.tw	Method	TBLASTX:Wheat
Start	1045	End	1469
GI	none	Score	446
Exons	1045...1464, 1089...1469, 1110...1469		

Seq. No.	55504	Seq. ID	OJ000323_34.0420.C11
Gene No.	116267	Strand	+
Start	157	End	2512
Name	OJ000323_34.0420.C11.o1.ts	Method	TBLASTX:Soybean
Start	1123	End	1524
GI	none	Score	318
Exons	1123...1524, 1140...1283, 1320...1490		

Seq. No.	55504	Seq. ID	OJ000323_34.0420.C11
Gene No.	116267	Strand	+
Start	157	End	2512
Name	OJ000323_34.0420.C11.o1.tm	Method	TBLASTX:Maize
Start	1191	End	1635
GI	none	Score	272
Exons	1191...1445, 1192...1446, 1467...1598, 1468...1611, 1609...1635		

Seq. No.	55504	Seq. ID	OJ000323_34.0420.C11
Gene No.	116267	Strand	+
Start	157	End	2512
Name	OJ000323_34.0420.C11.o4.tw	Method	TBLASTX:Wheat
Start	1473	End	1759
GI	none	Score	275
Exons	1473...1757, 1474...1755, 1661...1759		

Seq. No.	55504	Seq. ID	OJ000323_34.0420.C11
Gene No.	116267	Strand	+

Start	157	End	2512
Name	OJ000323_34.0420.C11.o2.ts	Method	TBLASTX:Soybean
Start	1750	End	2138
GI	none	Score	88
Exons	1750..1854, 1758..2138, 1893..1967, 1894..2136		

Seq. No.	55504	Seq. ID	OJ000323_34.0420.C11
Gene No.	116267	Strand	+
Start	157	End	2512
Name	OJ000323_34.0420.C11.o3.tw	Method	TBLASTX:Wheat
Start	1759	End	2181
GI	none	Score	415
Exons	1759..2181, 1767..2171		

Seq. No.	55504	Seq. ID	OJ000323_34.0420.C11
Gene No.	116267	Strand	+
Start	157	End	2512
Name	OJ000323_34.0420.C11.o3.tm	Method	TBLASTX:Maize
Start	2011	End	2265
GI	none	Score	192
Exons	2011..2265, 2019..2126		

Seq. No.	55504	Seq. ID	OJ000323_34.0420.C11
Gene No.	116267	Strand	+
Start	157	End	2512
Name	OJ000323_34.0420.C11.o6.tw	Method	TBLASTX:Wheat
Start	2197	End	2511
GI	none	Score	134
Exons	2197..2331, 2356..2511		

Seq. No.	55505	Seq. ID	OJ000323_34.0420.C12
Gene No.	116268	Strand	+
Start	1	End	1011
Name	OJ000323_34.0420.C12.o1.np	Method	AAT/NAP
Start	1	End	1008
GI	5902445	Score	1755
Exons	1..1008		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	55505	Seq. ID	OJ000323_34.0420.C12
Gene No.	116268	Strand	+
Start	1	End	1011
Name	OJ000323_34.0420.C12.o1.gs	Method	GENSCAN
Start	50	End	1011
GI	none	Score	.42
Exons	50..1011		

Seq. No.	55505	Seq. ID	OJ000323_34.0420.C12
Gene No.	116269	Strand	+
Start	5248	End	6309
Name	OJ000323_34.0420.C12.o3.gs	Method	GENSCAN
Start	5248	End	6309
GI	none	Score	.95
Exons	5248..5291, 5772..5940, 5959..6309		

Seq. No.	55505	Seq. ID	OJ000323_34.0420.C12
Gene No.	116270	Strand	+

Start	12568	End	14218
Name	OJ000323_34.0420.C12.o5.gs	Method	GENSCAN
Start	12568	End	14218
GI	none	Score	.86
Exons	12568..12926, 13125..13245, 13720..13869, 13982..14218		

Seq. No.	55505	Seq. ID	OJ000323_34.0420.C12
Gene No.	116270	Strand	+
Start	12568	End	14218
Name	OJ000323_34.0420.C12.o1.gp	Method	AAT/GAP
Start	12654	End	13057
GI	none	Score	772
Exons	12654..13057		

Seq. No.	55505	Seq. ID	OJ000323_34.0420.C12
Gene No.	116271	Strand	-
Start	1327	End	4268
Name	OJ000323_34.0420.C12.o2.gs	Method	GENSCAN
Start	1327	End	4268
GI	none	Score	.85
Exons	1327..1775, 1848..1952, 2025..2214, 2290..2477, 2597..3058, 3096..3297, 3384..4268		

Seq. No.	55505	Seq. ID	OJ000323_34.0420.C12
Gene No.	116271	Strand	-
Start	1327	End	4268
Name	OJ000323_34.0420.C12.o2.np	Method	AAT/NAP
Start	1330	End	4268
GI	6691716	Score	2306
Exons	1330..1775, 1848..1960, 2111..2214, 2290..2484, 2661..2928, 3011..3186, 3384..4268		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	55505	Seq. ID	OJ000323_34.0420.C12
Gene No.	116272	Strand	-
Start	7012	End	11305
Name	OJ000323_34.0420.C12.o1.tm	Method	TBLASTX:Maize
Start	4	End	240
GI	none	Score	288
Exons	4..201, 6..188, 192..239, 193..240		

Seq. No.	55505	Seq. ID	OJ000323_34.0420.C12
Gene No.	116272	Strand	-
Start	7012	End	11305
Name	OJ000323_34.0420.C12.o2.tw	Method	TBLASTX:Wheat
Start	16	End	378
GI	none	Score	395
Exons	16..378, 21..377		

Seq. No.	55505	Seq. ID	OJ000323_34.0420.C12
Gene No.	116272	Strand	-
Start	7012	End	11305
Name	OJ000323_34.0420.C12.o3.tm	Method	TBLASTX:Maize
Start	342	End	615
GI	none	Score	95

Exons	342..449, 343..441, 432..506, 436..519, 529..615		
Seq. No.	55505	Seq. ID	OJ000323_34.0420.C12
Gene No.	116272	Strand	-
Start	7012	End	11305
Name	OJ000323_34.0420.C12.o1.tw	Method	TBLASTX:Wheat
Start	385	End	999
GI	none	Score	349
Exons	385..876, 405..494, 546..647, 862..999, 873..995		

Seq. No.	55505	Seq. ID	OJ000323_34.0420.C12
Gene No.	116272	Strand	-
Start	7012	End	11305
Name	OJ000323_34.0420.C12.o2.tm	Method	TBLASTX:Maize
Start	727	End	960
GI	none	Score	148
Exons	727..879, 828..878, 858..959, 859..960		

Seq. No.	55505	Seq. ID	OJ000323_34.0420.C12
Gene No.	116272	Strand	-
Start	7012	End	11305
Name	OJ000323_34.0420.C12.o3.tw	Method	TBLASTX:Wheat
Start	3858	End	4148
GI	none	Score	211
Exons	3858..4148		

Seq. No.	55505	Seq. ID	OJ000323_34.0420.C12
Gene No.	116272	Strand	-
Start	7012	End	11305
Name	OJ000323_34.0420.C12.o4.gs	Method	GENSCAN
Start	7012	End	11305
GI	none	Score	.63
Exons	7012..7043, 7888..8018, 8729..8742, 10188..10208, 11231..11305		

Seq. No.	55506	Seq. ID	OJ000323_34.0420.C13
Gene No.	116273	Strand	-
Start	100	End	1922
Name	OJ000323_34.0420.C13.o1.np	Method	AAT/NAP
Start	100	End	697
GI	3776578	Score	311
Exons	100..697		
GI Descrip.	(AC005388) ESTs gb F13915 and gb F13916 come from this gene. [Arabidopsis thaliana]		

Seq. No.	55506	Seq. ID	OJ000323_34.0420.C13
Gene No.	116273	Strand	-
Start	100	End	1922
Name	OJ000323_34.0420.C13.o1.gs	Method	GENSCAN
Start	127	End	1922
GI	none	Score	.72
Exons	127..608, 1538..1655, 1911..1922		

Seq. No.	55506	Seq. ID	OJ000323_34.0420.C13
Gene No.	116273	Strand	-
Start	100	End	1922
Name	OJ000323_34.0420.C13.o1.gp	Method	AAT/GAP
Start	276	End	1770

GI 29656 1.R1084 Score 1088
 Exons 276..608, 1538..1770
 GI Descrip. '3776578 2.0e-21 (AC005388) ESTs gb_F13915 and gb_F13916 come from this gene. [Arabidopsis thaliana]'

Seq. No. 55506 Seq. ID OJ000323_34.0420.C13
 Gene No. 116274 Strand -
 Start 2263 End 2459
 Name OJ000323_34.0420.C13.o2.gp Method AAT/GAP
 Start 2263 End 2459
 GI LIB3477-003-P1-K1-E9 Score 95
 Exons 2263..2302, 2400..2459
 GI Descrip. '2498586/sp|Q40638|MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No. 55506 Seq. ID OJ000323_34.0420.C13
 Gene No. 116275 Strand -
 Start 3142 End 6412
 Name OJ000323_34.0420.C13.o1.tm Method TBLASTX:Maize
 Start 97 End 1746
 GI none Score 56
 Exons 97..150, 160..594, 162..590, 215..595, 587..646, 1530..1613, 1534..1614, 1708..1746, 1720..1746

Seq. No. 55506 Seq. ID OJ000323_34.0420.C13
 Gene No. 116275 Strand -
 Start 3142 End 6412
 Name OJ000323_34.0420.C13.o2.tc Method TBLASTX:Cress
 Start 154 End 604
 GI none Score 250
 Exons 154..594, 215..604

Seq. No. 55506 Seq. ID OJ000323_34.0420.C13
 Gene No. 116275 Strand -
 Start 3142 End 6412
 Name OJ000323_34.0420.C13.o1.tw Method TBLASTX:Wheat
 Start 165 End 521
 GI none Score 367
 Exons 165..518, 166..519, 215..520, 462..521

Seq. No. 55506 Seq. ID OJ000323_34.0420.C13
 Gene No. 116275 Strand -
 Start 3142 End 6412
 Name OJ000323_34.0420.C13.o2.ts Method TBLASTX:Soybean
 Start 190 End 603
 GI none Score 217
 Exons 190..603, 215..586

Seq. No. 55506 Seq. ID OJ000323_34.0420.C13
 Gene No. 116275 Strand -
 Start 3142 End 6412
 Name OJ000323_34.0420.C13.o2.gs Method GENSCAN
 Start 3142 End 6272
 GI none Score .66
 Exons 3142..3217, 3262..3376, 3663..3742, 4254..4366, 5008..5214, 5375..5523, 5601..6003, 6111..6272

Seq. No.	55506	Seq. ID	OJ000323_34.0420.C13
Gene No.	116275	Strand	-
Start	3142	End	6412
Name	OJ000323_34.0420.C13.o4.tm	Method	TBLASTX:Maize
Start	4235	End	5653
GI	none	Score	108
Exons	4235..4330, 4236..4367, 4244..4369, 4248..4367, 4999..5199, 5006..5215, 5008..5217, 5160..5222, 5369..5524, 5370..5540, 5424..5525, 5440..5529, 5599..5649, 5602..5652, 5603..5653		

Seq. No.	55506	Seq. ID	OJ000323_34.0420.C13
Gene No.	116275	Strand	-
Start	3142	End	6412
Name	OJ000323_34.0420.C13.o1.ts	Method	TBLASTX:Soybean
Start	4247	End	6397
GI	none	Score	132
Exons	4247..4369, 4251..4367, 5006..5116, 5008..5115, 5099..5215, 5107..5217, 5369..5449, 5370..5465, 5441..5524, 5442..5549, 5602..6006, 5603..6007, 5827..6030, 5939..6013, 6105..6392, 6109..6390, 6182..6397		

Seq. No.	55506	Seq. ID	OJ000323_34.0420.C13
Gene No.	116275	Strand	-
Start	3142	End	6412
Name	OJ000323_34.0420.C13.o2.np	Method	AAT/NAP
Start	4250	End	6412
GI	7486992	Score	1439
Exons	4250..4366, 5008..5214, 5375..5523, 5601..6003, 6111..6412		
GI Descrip.	hypothetical protein T13L16.5 - Arabidopsis thaliana gi 6598526 gb AAD20114.2 (AC006201) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55506	Seq. ID	OJ000323_34.0420.C13
Gene No.	116275	Strand	-
Start	3142	End	6412
Name	OJ000323_34.0420.C13.o3.gp	Method	AAT/GAP
Start	4325	End	5986
GI	10061_1.R1084	Score	1412
Exons	4325..4366, 5008..5214, 5375..5523, 5601..5986		
GI Descrip.	'4454038/emb CAA23035.1 4.0e-29 (AL035394) putative disease resistance response protein [Arabidopsis thaliana]'		

Seq. No.	55506	Seq. ID	OJ000323_34.0420.C13
Gene No.	116275	Strand	-
Start	3142	End	6412
Name	OJ000323_34.0420.C13.o1.tc	Method	TBLASTX:Cress
Start	5402	End	6128
GI	none	Score	128
Exons	5402..5524, 5403..5540, 5602..6006, 5603..6004, 5830..6006, 5861..6013, 5940..6017, 6105..6128		

Seq. No.	55506	Seq. ID	OJ000323_34.0420.C13
Gene No.	116275	Strand	-
Start	3142	End	6412
Name	OJ000323_34.0420.C13.o2.tm	Method	TBLASTX:Maize
Start	5655	End	5959

GI	none	Score	276
Exons	5655..5957, 5656..5958, 5657..5959		

Seq. No.	55506	Seq. ID	OJ000323_34.0420.C13
Gene No.	116275	Strand	-
Start	3142	End	6412
Name	OJ000323_34.0420.C13.o3.tm	Method	TBLASTX:Maize
Start	6135	End	6392
GI	none	Score	370
Exons	6135..6392, 6136..6390		

Seq. No.	55507	Seq. ID	OJ000323_34.0420.C14
Gene No.	116276	Strand	+
Start	1	End	248
Name	OJ000323_34.0420.C14.o1.gp	Method	AAT/GAP
Start	1	End	248
GI	3768640	Score	443
Exons	1..248		
GI Descrip.	4335739/gb AAD17417 3.0e-11 (AC006248) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55507	Seq. ID	OJ000323_34.0420.C14
Gene No.	116277	Strand	+
Start	484	End	1055
Name	OJ000323_34.0420.C14.o2.gp	Method	AAT/GAP
Start	484	End	1055
GI	2798815	Score	637
Exons	484..1055		
GI Descrip.	3660464/emb AJ001753 ATI134T 1.0e-20 Arabidopsis thaliana mRNA for Inositol 1,3,4-Trisphosphate 5/6 Kinase		

Seq. No.	55507	Seq. ID	OJ000323_34.0420.C14
Gene No.	116278	Strand	-
Start	698	End	5251
Name	OJ000323_34.0420.C14.o1.gs	Method	GENSCAN
Start	698	End	5251
GI	none	Score	.94
Exons	698..1156, 1254..1505, 1821..2021, 2606..2776, 2869..3053, 3146..3471, 4050..5251		

Seq. No.	55507	Seq. ID	OJ000323_34.0420.C14
Gene No.	116278	Strand	-
Start	698	End	5251
Name	OJ000323_34.0420.C14.o1.np	Method	AAT/NAP
Start	703	End	5206
GI	7303287	Score	1837
Exons	703..1138, 1254..1505, 1821..2030, 2615..2776, 2869..3053, 3155..3471, 4050..4170, 4243..5206		
GI Descrip.	(AE003817) CG6197 gene product [Drosophila melanogaster]		

Seq. No.	55507	Seq. ID	OJ000323_34.0420.C14
Gene No.	116278	Strand	-
Start	698	End	5251
Name	OJ000323_34.0420.C14.o3.gp	Method	AAT/GAP
Start	2691	End	3230
GI	4878395	Score	642
Exons	2691..2776, 2869..3053, 3146..3230		

GI Descrip. 1707032 2.0e-15 (U80445) coded for by C. elegans cDNA yk13g5.3; coded for by C. elegans cDNA yk21g6.3; coded for by C. elegans cDNA CEMSE18F; coded for by C. elegans cDNA yk126b1.3; coded for by C. elegans cDNA yk65h8.3; coded for by C. elegans cDNA yk65h8

Seq. No.	55507	Seq. ID	OJ000323_34.0420.C14
Gene No.	116279	Strand	-
Start	6452	End	7323
Name	OJ000323_34.0420.C14.o2.gs	Method	GENSCAN
Start	6452	End	7323
GI	none	Score	.75
Exons	6452..6480, 6702..6855, 7108..7323		

Seq. No.	55507	Seq. ID	OJ000323_34.0420.C14
Gene No.	116280	Strand	-
Start	10339	End	10496
Name	OJ000323_34.0420.C14.o1.tm	Method	TBLASTX:Maize
Start	578	End	2777
GI	none	Score	48
Exons	578..646, 579..650, 639..656, 688..768, 689..790, 696..752, 758..844, 769..891, 945..1010, 953..976, 1031..1159, 1032..1151, 1034..1159, 1244..1363, 1254..1367, 1255..1362, 1363..1506, 1365..1514, 1369..1506, 1786..2022, 1806..2024, 1825..2025, 1826..2023, 2596..2709, 2606..2740, 2606..2716, 2713..2772, 2715..2777, 2717..2776		

Seq. No.	55507	Seq. ID	OJ000323_34.0420.C14
Gene No.	116280	Strand	-
Start	10339	End	10496
Name	OJ000323_34.0420.C14.o2.tc	Method	TBLASTX:Cress
Start	1032	End	1388
GI	none	Score	44
Exons	1032..1067, 1034..1066, 1064..1159, 1065..1157, 1070..1159, 1254..1388, 1255..1380		

Seq. No.	55507	Seq. ID	OJ000323_34.0420.C14
Gene No.	116280	Strand	-
Start	10339	End	10496
Name	OJ000323_34.0420.C14.o1.ts	Method	TBLASTX:Soybean
Start	1434	End	2027
GI	none	Score	87
Exons	1434..1514, 1438..1506, 1783..2022, 1806..2027		

Seq. No.	55507	Seq. ID	OJ000323_34.0420.C14
Gene No.	116280	Strand	-
Start	10339	End	10496
Name	OJ000323_34.0420.C14.o1.tc	Method	TBLASTX:Cress
Start	2660	End	3215
GI	none	Score	139
Exons	2660..2779, 2671..2784, 2673..2789, 2830..3051, 2864..3055, 2867..3052, 2868..3056, 2913..3056, 3147..3215, 3154..3204		

Seq. No.	55507	Seq. ID	OJ000323_34.0420.C14
Gene No.	116280	Strand	-
Start	10339	End	10496
Name	OJ000323_34.0420.C14.o2.tm	Method	TBLASTX:Maize
Start	2915	End	4300

GI	none	Score	80
Exons	2915..3025, 2915..2977, 2917..2994, 2980..3054, 2981..3055, 3147..3473, 3148..3474, 3177..3365, 3300..3485, 4036..4200, 4048..4218, 4049..4225, 4187..4228, 4273..4299, 4274..4300		

Seq. No.	55507	Seq. ID	OJ000323_34.0420.C14
Gene No.	116280	Strand	-
Start	10339	End	10496
Name	OJ000323_34.0420.C14.o3.tc	Method	TBLASTX:Cress
Start	3319	End	4207
GI	none	Score	102
Exons	3319..3471, 3324..3473, 4049..4207		

Seq. No.	55507	Seq. ID	OJ000323_34.0420.C14
Gene No.	116280	Strand	-
Start	10339	End	10496
Name	OJ000323_34.0420.C14.o3.gs	Method	GENSCAN
Start	10339	End	10496
GI	none	Score	.64
Exons	10339..10383, 10425..10496		

Seq. No.	55508	Seq. ID	OJ000323_34.0420.C15
Gene No.	116281	Strand	+
Start	5770	End	12960
Name	OJ000323_34.0420.C15.o2.gs	Method	GENSCAN
Start	5770	End	10480
GI	none	Score	.52
Exons	5770..6010, 6682..6724, 6880..7047, 7846..7947, 8009..8358, 9483..10188, 10232..10338, 10446..10480		

Seq. No.	55508	Seq. ID	OJ000323_34.0420.C15
Gene No.	116281	Strand	+
Start	5770	End	12960
Name	OJ000323_34.0420.C15.o1.gp	Method	AAT/GAP
Start	9381	End	9892
GI	uC-osflM202052c07b1	Score	995
Exons	9381..9892		
GI Descrip.	'4234848 1.0e-12 (AF082131) gag-pol polyprotein [Zea mays]'		

Seq. No.	55508	Seq. ID	OJ000323_34.0420.C15
Gene No.	116281	Strand	+
Start	5770	End	12960
Name	OJ000323_34.0420.C15.o1.np	Method	AAT/NAP
Start	9491	End	12960
GI	7489738	Score	2230
Exons	9491..9667, 9701..12960		
GI Descrip.	gag-pol polyprotein - maize copia-like retrotransposon Sto-4 gi 4234852 gb AAD12997.1 (AF082133) gag-pol polyprotein [Zea mays]		

Seq. No.	55508	Seq. ID	OJ000323_34.0420.C15
Gene No.	116281	Strand	+
Start	5770	End	12960
Name	OJ000323_34.0420.C15.o2.gp	Method	AAT/GAP
Start	10124	End	10697
GI	uC-osflcyp006a10b1	Score	842
Exons	10124..10338, 10446..10697		

GI Descrip. '4234846 7.0e-13 (AF082130) gag-pol polyprotein [Zea mays]'

Seq. No.	55508	Seq. ID	OJ000323_34.0420.C15
Gene No.	116282	Strand	-
Start	459	End	5248
Name	OJ000323_34.0420.C15.o1.gs	Method	GENSCAN
Start	459	End	5248
GI	none	Score	.56
Exons	459..647, 1216..1352, 1450..1570, 1610..1820, 3849..3894, 4385..4456, 5065..5248		

Seq. No.	55508	Seq. ID	OJ000323_34.0420.C15
Gene No.	116283	Strand	-
Start	11043	End	13081
Name	OJ000323_34.0420.C15.o1.tm	Method	TBLASTX:Maize
Start	9584	End	10186
GI	none	Score	467
Exons	9584..10162, 9706..10152, 9908..10186		

Seq. No.	55508	Seq. ID	OJ000323_34.0420.C15
Gene No.	116283	Strand	-
Start	11043	End	13081
Name	OJ000323_34.0420.C15.o3.gs	Method	GENSCAN
Start	11043	End	13081
GI	none	Score	.79
Exons	11043..11266, 12908..13081		

Seq. No.	55508	Seq. ID	OJ000323_34.0420.C15
Gene No.	116283	Strand	-
Start	11043	End	13081
Name	OJ000323_34.0420.C15.o1.ts	Method	TBLASTX:Soybean
Start	11443	End	11865
GI	5509260	Score	121
Exons	11443..11475, 11451..11609, 11571..11804, 11590..11865		
GI Descrip.	-		

Seq. No.	55508	Seq. ID	OJ000323_34.0420.C15
Gene No.	116283	Strand	-
Start	11043	End	13081
Name	OJ000323_34.0420.C15.o1.tw	Method	TBLASTX:Wheat
Start	11571	End	12354
GI	none	Score	41
Exons	11571..11609, 11590..11856, 11607..11855, 11861..11944, 11951..12169, 11979..12215, 11987..12169, 12148..12354, 12156..12350		

Seq. No.	55508	Seq. ID	OJ000323_34.0420.C15
Gene No.	116283	Strand	-
Start	11043	End	13081
Name	OJ000323_34.0420.C15.o3.tm	Method	TBLASTX:Maize
Start	11590	End	12037
GI	none	Score	220
Exons	11590..11865, 11607..11855, 11951..12037		

Seq. No.	55508	Seq. ID	OJ000323_34.0420.C15
Gene No.	116283	Strand	-
Start	11043	End	13081

Name	OJ000323_34.0420.C15.o2.tm	Method	TBLASTX:Maize
Start	12160	End	12444
GI	none	Score	228
Exons	12160..12444, 12294..12434		
Seq. No.	55508	Seq. ID	OJ000323_34.0420.C15
Gene No.	116283	Strand	-
Start	11043	End	13081
Name	OJ000323_34.0420.C15.o2.ts	Method	TBLASTX:Soybean
Start	12340	End	12906
GI	none	Score	85
Exons	12340..12492, 12540..12686, 12715..12906		
Seq. No.	55508	Seq. ID	OJ000323_34.0420.C15
Gene No.	116283	Strand	-
Start	11043	End	13081
Name	OJ000323_34.0420.C15.o2.tw	Method	TBLASTX:Wheat
Start	12513	End	12909
GI	none	Score	135
Exons	12513..12686, 12545..12685, 12694..12909		
Seq. No.	55509	Seq. ID	OJ000323_34.0420.C16
Gene No.	116284	Strand	-
Start	11	End	226
Name	OJ000323_34.0420.C16.o1.gs	Method	GENSCAN
Start	11	End	226
GI	none	Score	.75
Exons	11..226		
Seq. No.	55509	Seq. ID	OJ000323_34.0420.C16
Gene No.	116285	Strand	-
Start	1325	End	2059
Name	OJ000323_34.0420.C16.o2.gs	Method	GENSCAN
Start	1325	End	2059
GI	none	Score	.99
Exons	1325..2059		
Seq. No.	55510	Seq. ID	OJ000323_34.0420.C17
Gene No.	116286	Strand	-
Start	1	End	762
Name	OJ000323_34.0420.C17.o1.np	Method	AAT/NAP
Start	1	End	762
GI	7486992	Score	205
Exons	1..207, 648..762		
GI Descrip.	hypothetical protein T13L16.5 - Arabidopsis thaliana gi 6598526 gb AAD20114.2 (AC006201) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	55511	Seq. ID	OJ000313_36.0421.C1
Gene No.	116287	Strand	-
Start	2267	End	3792
Name	OJ000313_36.0421.C1.o1.gs	Method	GENSCAN
Start	2267	End	3792
GI	none	Score	.6
Exons	2267..2400, 2800..3003, 3634..3684, 3786..3792		
Seq. No.	55512	Seq. ID	OJ000313_36.0421.C2

Gene No.	116288	Strand	+
Start	1	End	619
Name	OJ000313_36.0421.C2.o1.np	Method	AAT/NAP
Start	1	End	616
GI	5869975	Score	717
Exons	1..616		
GI Descrip.	(AJ237943) germin-like protein [Triticum aestivum]		

Seq. No.	55512	Seq. ID	OJ000313_36.0421.C2
Gene No.	116288	Strand	+
Start	1	End	619
Name	OJ000313_36.0421.C2.o1.tc	Method	TBLASTX:Cress
Start	41	End	598
GI	none	Score	62
Exons	41..112, 46..108, 136..333, 137..343, 143..343, 350..427, 439..564, 443..598		

Seq. No.	55512	Seq. ID	OJ000313_36.0421.C2
Gene No.	116288	Strand	+
Start	1	End	619
Name	OJ000313_36.0421.C2.o1.tw	Method	TBLASTX:Wheat
Start	45	End	514
GI	none	Score	64
Exons	45..134, 46..144, 46..144, 47..145, 79..177, 145..177, 146..178, 175..336, 179..337, 196..354, 326..514, 348..485, 350..496, 385..513		

Seq. No.	55512	Seq. ID	OJ000313_36.0421.C2
Gene No.	116288	Strand	+
Start	1	End	619
Name	OJ000313_36.0421.C2.o1.tm	Method	TBLASTX:Maize
Start	46	End	616
GI	none	Score	325
Exons	46..117, 47..367, 139..333, 147..335, 350..427, 350..427, 436..609, 437..613, 464..616		

Seq. No.	55512	Seq. ID	OJ000313_36.0421.C2
Gene No.	116288	Strand	+
Start	1	End	619
Name	OJ000313_36.0421.C2.o1.ts	Method	TBLASTX:Soybean
Start	46	End	614
GI	none	Score	51
Exons	46..108, 47..106, 140..337, 154..333, 161..343, 343..417, 347..436, 360..440, 445..579, 446..610, 452..610, 453..614		

Seq. No.	55512	Seq. ID	OJ000313_36.0421.C2
Gene No.	116288	Strand	+
Start	1	End	619
Name	OJ000313_36.0421.C2.o1.gs	Method	GENSCAN
Start	48	End	619
GI	none	Score	.95
Exons	48..619		

Seq. No.	55513	Seq. ID	OJ000313_36.0421.C3
Gene No.	116289	Strand	+
Start	733	End	1546
Name	OJ000313_36.0421.C3.o1.tw	Method	TBLASTX:Wheat

Start	709	End	1438
GI	none	Score	136
Exons	709..852, 741..860, 969..998, 971..1054, 971..1054, 1054..1101, 1069..1101, 1070..1102, 1099..1260, 1103..1261, 1114..1308, 1250..1438, 1272..1409, 1273..1437		

Seq. No.	55513	Seq. ID	OJ000313_36.0421.C3
Gene No.	116289	Strand	+
Start	733	End	1546
Name	OJ000313_36.0421.C3.ol.np	Method	AAT/NAP
Start	733	End	1540
GI	5869975	Score	836
Exons	733..853, 972..1540		
GI Descrip.	(AJ237943) germin-like protein [Triticum aestivum]		

Seq. No.	55513	Seq. ID	OJ000313_36.0421.C3
Gene No.	116289	Strand	+
Start	733	End	1546
Name	OJ000313_36.0421.C3.ol.gs	Method	GENSCAN
Start	736	End	1543
GI	none	Score	.97
Exons	736..853, 972..1543		

Seq. No.	55513	Seq. ID	OJ000313_36.0421.C3
Gene No.	116289	Strand	+
Start	733	End	1546
Name	OJ000313_36.0421.C3.ol.tc	Method	TBLASTX:Cress
Start	736	End	1522
GI	none	Score	76
Exons	736..873, 971..1036, 1063..1257, 1064..1267, 1064..1267, 1274..1351, 1279..1329, 1363..1521, 1367..1522		

Seq. No.	55513	Seq. ID	OJ000313_36.0421.C3
Gene No.	116289	Strand	+
Start	733	End	1546
Name	OJ000313_36.0421.C3.ol.ts	Method	TBLASTX:Soybean
Start	754	End	1546
GI	none	Score	93
Exons	754..858, 971..1030, 1063..1257, 1064..1261, 1267..1350, 1273..1350, 1274..1375, 1274..1366, 1369..1503, 1370..1540, 1373..1546, 1419..1544		

Seq. No.	55513	Seq. ID	OJ000313_36.0421.C3
Gene No.	116289	Strand	+
Start	733	End	1546
Name	OJ000313_36.0421.C3.ol.tm	Method	TBLASTX:Maize
Start	790	End	1540
GI	none	Score	96
Exons	790..852, 792..860, 970..1041, 971..1258, 1044..1061, 1063..1257, 1274..1351, 1274..1351, 1360..1533, 1361..1537, 1388..1540		

Seq. No.	55514	Seq. ID	OJ000313_36.0421.C4
Gene No.	116290	Strand	+
Start	500	End	746
Name	OJ000313_36.0421.C4.ol.gs	Method	GENSCAN
Start	500	End	746

GI	none	Score	.72
Exons	500..746		
Seq. No.	55515	Seq. ID	OJ000313_36.0421.C5
Gene No.	116291	Strand	+
Start	965	End	1133
Name	OJ000313_36.0421.C5.o1.gp	Method	AAT/GAP
Start	965	End	1133
GI	LIB3433-011-Q6-K1-E11	Score	293
Exons	965..1133		
GI Descrip.	'5869975/emb CAB55559.1 2.0e-41 (AJ237943) germin-like protein [Triticum aestivum]'		

Seq. No.	55515	Seq. ID	OJ000313_36.0421.C5
Gene No.	116291	Strand	+
Start	965	End	1133
Name	OJ000313_36.0421.C5.o1.np	Method	AAT/NAP
Start	1029	End	1133
GI	5499730	Score	129
Exons	1029..1133		
GI Descrip.	(AF141878) germin-like protein 1 precursor [Oryza sativa] gi 5499734 gb AAD43973.1 AF141880.1 (AF141880) germin-like protein 1 precursor [Oryza sativa]		

Seq. No.	55516	Seq. ID	OJ000313_36.0421.C6
Gene No.	116292	Strand	+
Start	1	End	3162
Name	OJ000313_36.0421.C6.o1.np	Method	AAT/NAP
Start	1	End	1195
GI	479357	Score	971
Exons	1..1195		
GI Descrip.	hypothetical protein 612 - maize transposon MuA2 gi 22375 emb CAA44165 (X62251) ORF [Zea mays]		

Seq. No.	55516	Seq. ID	OJ000313_36.0421.C6
Gene No.	116292	Strand	+
Start	1	End	3162
Name	OJ000313_36.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	38	End	817
GI	none	Score	314
Exons	38..295, 43..294, 308..358, 311..421, 386..712, 458..712, 766..804, 767..817		

Seq. No.	55516	Seq. ID	OJ000313_36.0421.C6
Gene No.	116292	Strand	+
Start	1	End	3162
Name	OJ000313_36.0421.C6.o1.gs	Method	GENSCAN
Start	74	End	3162
GI	none	Score	.4
Exons	74..1143, 1229..1366, 2269..2365, 2643..2672, 3100..3162		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116293	Strand	+
Start	1115	End	2374
Name	OJ000313_36.0421.C7.o1.gs	Method	GENSCAN
Start	1115	End	2374
GI	none	Score	1

Exons 1115..2374

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116294	Strand	+
Start	7266	End	8254
Name	OJ000313_36.0421.C7.o1.gp	Method	AAT/GAP
Start	7266	End	8254
GI	none	Score	757
Exons	7266..7542, 7924..7996, 8139..8254		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116295	Strand	+
Start	9521	End	10451
Name	OJ000313_36.0421.C7.o2.gp	Method	AAT/GAP
Start	9473	End	10019
GI	74519_1.R1084	Score	835
Exons	9473..9587, 9673..10019		
GI Descrip.	'1209312 4.0e-09 (L15292) heat shock protein [Euplotes eurystomus]'		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116295	Strand	+
Start	9521	End	10451
Name	OJ000313_36.0421.C7.o3.gs	Method	GENSCAN
Start	9521	End	10451
GI	none	Score	1
Exons	9521..9587, 9673..10451		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116295	Strand	+
Start	9521	End	10451
Name	OJ000313_36.0421.C7.o1.np	Method	AAT/NAP
Start	9669	End	10421
GI	4803960	Score	470
Exons	9669..10421		
GI Descrip.	(AC006202) putative carbonic anhydrase [Arabidopsis thaliana]		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116296	Strand	+
Start	11216	End	14998
Name	OJ000313_36.0421.C7.o4.gs	Method	GENSCAN
Start	11216	End	14998
GI	none	Score	.54
Exons	11216..11266, 12042..12252, 13448..13560, 13888..13989, 14225..14347, 14502..14600, 14987..14998		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116296	Strand	+
Start	11216	End	14998
Name	OJ000313_36.0421.C7.o3.gp	Method	AAT/GAP
Start	13217	End	14570
GI	5003192	Score	977
Exons	13217..13354, 13459..13560, 13888..13989, 14225..14347, 14502..14570		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116297	Strand	+

Start	16649	End	17452
Name	OJ000313_36.0421.C7.o4.gp	Method	AAT/GAP
Start	16649	End	17452
GI	5003193	Score	1342
Exons	16649..17018, 17110..17452		
GI Descrip.	2541876/dbj BAA22813 5.0e-15 (D26015) CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum]		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116298	Strand	+
Start	18617	End	20002
Name	OJ000313_36.0421.C7.o6.gs	Method	GENSCAN
Start	18617	End	20002
GI	none	Score	.78
Exons	18617..20002		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116298	Strand	+
Start	18617	End	20002
Name	OJ000313_36.0421.C7.o4.np	Method	AAT/NAP
Start	18621	End	19825
GI	6911549	Score	518
Exons	18621..19825		
GI Descrip.	(AJ249329) heat shock protein 70 [Cucumis sativus]		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116298	Strand	+
Start	18617	End	20002
Name	OJ000313_36.0421.C7.o5.gp	Method	AAT/GAP
Start	19213	End	19698
GI	2442580	Score	242
Exons	19213..19237, 19322..19387, 19646..19698		
GI Descrip.	1209312 4.0e-09 (L15292) heat shock protein [Euplotes eurytomus]		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116299	Strand	+
Start	24981	End	25745
Name	OJ000313_36.0421.C7.o7.np	Method	AAT/NAP
Start	22729	End	25407
GI	7340909	Score	141
Exons	22729..22780, 22935..23238, 25226..25407		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116299	Strand	+
Start	24981	End	25745
Name	OJ000313_36.0421.C7.o5.np	Method	AAT/NAP
Start	22935	End	24429
GI	7340909	Score	131
Exons	22935..23275, 24389..24429		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116299	Strand	+
Start	24981	End	25745
Name	OJ000313_36.0421.C7.o6.np	Method	AAT/NAP

Start	24126	End	25426
GI	6016874	Score	64
Exons	24126..24261, 25200..25426		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116299	Strand	+
Start	24981	End	25745
Name	OJ000313_36.0421.C7.o7.gs	Method	GENSCAN
Start	24981	End	25745
GI	none	Score	.69
Exons	24981..25745		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116300	Strand	-
Start	9731	End	11714
Name	OJ000313_36.0421.C7.o2.np	Method	AAT/NAP
Start	9731	End	11411
GI	6539588	Score	156
Exons	9731..9780, 11119..11411		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116300	Strand	-
Start	9731	End	11714
Name	OJ000313_36.0421.C7.o3.np	Method	AAT/NAP
Start	10304	End	11714
GI	7523502	Score	138
Exons	10304..10334, 11127..11309, 11621..11714		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116301	Strand	-
Start	16137	End	17255
Name	OJ000313_36.0421.C7.o5.gs	Method	GENSCAN
Start	16137	End	17255
GI	none	Score	.69
Exons	16137..17255		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116302	Strand	-
Start	25898	End	27826
Name	OJ000313_36.0421.C7.o8.np	Method	AAT/NAP
Start	25898	End	27826
GI	1865782	Score	55
Exons	25898..25941, 27676..27826		
GI Descrip.	(Y11413) HSC70 protein [Danio rerio]		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116303	Strand	-
Start	27792	End	28122
Name	OJ000313_36.0421.C7.o3.tw	Method	TBLASTX:Wheat
Start	1127	End	1354
GI	none	Score	179
Exons	1127..1354		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116303	Strand	-
Start	27792	End	28122
Name	OJ000313_36.0421.C7.o1.tm	Method	TBLASTX:Maize
Start	9669	End	10436
GI	none	Score	425
Exons	9669..10043, 9680..10039, 10046..10117, 10047..10172, 10164..10436, 10178..10435, 10284..10436		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116303	Strand	-
Start	27792	End	28122
Name	OJ000313_36.0421.C7.o3.ts	Method	TBLASTX:Soybean
Start	9678	End	10003
GI	none	Score	243
Exons	9678..10001, 9866..10003		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116303	Strand	-
Start	27792	End	28122
Name	OJ000313_36.0421.C7.o2.tc	Method	TBLASTX:Cress
Start	9696	End	10400
GI	none	Score	93
Exons	9696..9812, 9704..9796, 9819..10043, 9863..10039, 10167..10337, 10356..10400		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116303	Strand	-
Start	27792	End	28122
Name	OJ000313_36.0421.C7.o2.tw	Method	TBLASTX:Wheat
Start	10220	End	10436
GI	none	Score	251
Exons	10220..10435, 10221..10436, 10278..10436, 10284..10355		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116303	Strand	-
Start	27792	End	28122
Name	OJ000313_36.0421.C7.o2.ts	Method	TBLASTX:Soybean
Start	16437	End	17186
GI	none	Score	46
Exons	16437..16598, 16662..16715, 16809..17048, 16819..16962, 17037..17186, 17067..17183		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116303	Strand	-
Start	27792	End	28122
Name	OJ000313_36.0421.C7.o3.tc	Method	TBLASTX:Cress
Start	16809	End	17186
GI	none	Score	86
Exons	16809..16931, 16986..17078, 17088..17186		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116303	Strand	-
Start	27792	End	28122
Name	OJ000313_36.0421.C7.o1.tc	Method	TBLASTX:Cress
Start	18740	End	27825

GI	none	Score	64
Exons	18740..18799, 18869..19045, 19145..19276, 19153..19269, 19342..19470, 19343..19603, 19612..19677, 19616..19687, 19735..19818, 19736..19819, 27693..27746, 27699..27749, 27769..27825, 27778..27825		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116303	Strand	-
Start	27792	End	28122
Name	OJ000313_36.0421.C7.o1.ts	Method	TBLASTX:Soybean
Start	18740	End	27825
GI	none	Score	68
Exons	18740..18799, 18869..19045, 19145..19276, 19153..19269, 19342..19470, 19343..19603, 19613..19687, 19735..19818, 19736..19819, 27695..27748, 27699..27758, 27769..27825, 27778..27825		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116303	Strand	-
Start	27792	End	28122
Name	OJ000313_36.0421.C7.o2.tm	Method	TBLASTX:Maize
Start	18740	End	27825
GI	none	Score	68
Exons	18740..18799, 18742..18789, 18865..18915, 18869..19045, 19145..19276, 19153..19269, 19342..19470, 19343..19603, 19492..19557, 19613..19687, 19735..19824, 19736..19819, 27695..27748, 27748..27771, 27769..27825		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116303	Strand	-
Start	27792	End	28122
Name	OJ000313_36.0421.C7.o1.tw	Method	TBLASTX:Wheat
Start	18746	End	27825
GI	none	Score	48
Exons	18746..18790, 18869..19000, 19145..19276, 19153..19269, 19342..19470, 19343..19480, 19511..19555, 19613..19690, 19627..19677, 19736..19819, 19741..19821, 27695..27748, 27769..27825		

Seq. No.	55517	Seq. ID	OJ000313_36.0421.C7
Gene No.	116303	Strand	-
Start	27792	End	28122
Name	OJ000313_36.0421.C7.o8.gs	Method	GENSCAN
Start	27792	End	28122
GI	none	Score	.41
Exons	27792..27947, 27997..28122		

Seq. No.	55518	Seq. ID	OJ000313_36.0421.C8
Gene No.	116304	Strand	+
Start	1	End	165
Name	OJ000313_36.0421.C8.o1.gp	Method	AAT/GAP
Start	1	End	165
GI	37695_1.R1084	Score	326
Exons	1..165		
GI Descrip.	'5042155/emb CAB44674.1 1.0e-12 (AL078620) putative protein [Arabidopsis thaliana]'		

Seq. No.	55518	Seq. ID	OJ000313_36.0421.C8
Gene No.	116305	Strand	+
Start	5689	End	7253
Name	OJ000313_36.0421.C8.o3.np	Method	AAT/NAP
Start	5689	End	7253
GI	7340909	Score	194
Exons	5689..5712, 6979..7253		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	55518	Seq. ID	OJ000313_36.0421.C8
Gene No.	116306	Strand	-
Start	1	End	7253
Name	OJ000313_36.0421.C8.o1.np	Method	AAT/NAP
Start	1	End	2604
GI	7486049	Score	1128
Exons	1..334, 937..1098, 1436..1636, 1721..1905, 2472..2604		
GI Descrip.	hypothetical protein F23K16.20 - Arabidopsis thaliana gi 5042155 emb CAB44674.1 (AL078620) putative protein [Arabidopsis thaliana] gi 7270923 emb CAB80602.1 (AL161595) putative protein [Arabidopsis thaliana]		

Seq. No.	55518	Seq. ID	OJ000313_36.0421.C8
Gene No.	116306	Strand	-
Start	1	End	7253
Name	OJ000313_36.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	5	End	2556
GI	none	Score	390
Exons	5..307, 6..308, 34..315, 937..1098, 938..1096, 939..1097, 1436..1657, 1436..1690, 1712..1864, 1721..1906, 1722..1904, 2468..2551, 2468..2551, 2469..2552, 2473..2556		

Seq. No.	55518	Seq. ID	OJ000313_36.0421.C8
Gene No.	116306	Strand	-
Start	1	End	7253
Name	OJ000313_36.0421.C8.o1.gs	Method	GENSCAN
Start	44	End	7117
GI	none	Score	53
Exons	44..307, 937..1098, 1436..1636, 1845..1905, 2472..2659, 2828..2934, 3580..3604, 5204..5245, 6376..6545, 6706..6880, 7070..7117		

Seq. No.	55518	Seq. ID	OJ000313_36.0421.C8
Gene No.	116306	Strand	-
Start	1	End	7253
Name	OJ000313_36.0421.C8.o1.tc	Method	TBLASTX:Cress
Start	53	End	263
GI	none	Score	185
Exons	53..262, 57..263		

Seq. No.	55518	Seq. ID	OJ000313_36.0421.C8
Gene No.	116306	Strand	-
Start	1	End	7253
Name	OJ000313_36.0421.C8.o1.ts	Method	TBLASTX:Soybean
Start	53	End	2608
GI	none	Score	143
Exons	53..268, 53..304, 54..308, 952..1098, 965..1096, 1436..1690, 1437..1640, 1712..1864, 1713..1844, 1715..1903, 1722..1904,		

2446..2565, 2462..2608

Seq. No.	55518	Seq. ID	OJ000313_36.0421.C8
Gene No.	116306	Strand	-
Start	1	End	7253
Name	OJ000313_36.0421.C8.o2.tc	Method	TBLASTX:Cress
Start	1018	End	1801
GI	none	Score	118
Exons	1018..1086, 1439..1690, 1440..1694, 1712..1801		

Seq. No.	55518	Seq. ID	OJ000313_36.0421.C8
Gene No.	116306	Strand	-
Start	1	End	7253
Name	OJ000313_36.0421.C8.o2.gp	Method	AAT/GAP
Start	1561	End	3143
GI	26157_1.R1084	Score	1424
Exons	1561..1636, 1721..1905, 2472..2659, 2828..3143		
GI Descrip.	'4538911/emb CAB39648.1 7.0e-44 (AL049482) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	55518	Seq. ID	OJ000313_36.0421.C8
Gene No.	116306	Strand	-
Start	1	End	7253
Name	OJ000313_36.0421.C8.o2.np	Method	AAT/NAP
Start	6297	End	7253
GI	6721507	Score	90
Exons	6297..6494, 6772..6880, 7218..7253		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	55519	Seq. ID	OJ000313_36.0421.C9
Gene No.	116307	Strand	+
Start	2124	End	5212
Name	OJ000313_36.0421.C9.o4.np	Method	AAT/NAP
Start	2124	End	5212
GI	5922620	Score	273
Exons	2124..2276, 2611..2635, 3430..3775, 4991..5212		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1 (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55519	Seq. ID	OJ000313_36.0421.C9
Gene No.	116308	Strand	-
Start	1	End	1976
Name	OJ000313_36.0421.C9.o1.np	Method	AAT/NAP
Start	1	End	1976
GI	7340909	Score	169
Exons	1..162, 384..691, 1954..1976		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	55519	Seq. ID	OJ000313_36.0421.C9
Gene No.	116308	Strand	-
Start	1	End	1976
Name	OJ000313_36.0421.C9.o2.np	Method	AAT/NAP
Start	1	End	1850
GI	6539570	Score	173

Exons 1..422, 1616..1850
 GI Descrip. (AP000836) hypothetical protein [Oryza sativa]

Seq. No.	55519	Seq. ID	OJ000313_36.0421.C9
Gene No.	116309	Strand	-
Start	1986	End	2063
Name	OJ000313_36.0421.C9.o3.np	Method	AAT/NAP
Start	1986	End	2063
GI	6630699	Score	85
Exons	1986..2063		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1 (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	55519	Seq. ID	OJ000313_36.0421.C9
Gene No.	116310	Strand	-
Start	5351	End	5428
Name	OJ000313_36.0421.C9.o5.np	Method	AAT/NAP
Start	5351	End	5428
GI	6630699	Score	97
Exons	5351..5428		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1 (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	55520	Seq. ID	OJ000313_36.0421.C11
Gene No.	116311	Strand	-
Start	808	End	1317
Name	OJ000313_36.0421.C11.o1.gp	Method	AAT/GAP
Start	808	End	1317
GI	none	Score	430
Exons	808..828, 1087..1317		

Seq. No.	55521	Seq. ID	OJ000313_36.0421.C12
Gene No.	116312	Strand	+
Start	57	End	2825
Name	OJ000313_36.0421.C12.o1.gs	Method	GENSCAN
Start	57	End	2805
GI	none	Score	.42
Exons	57..179, 752..979, 2033..2236, 2660..2805		

Seq. No.	55521	Seq. ID	OJ000313_36.0421.C12
Gene No.	116312	Strand	+
Start	57	End	2825
Name	OJ000313_36.0421.C12.o1.np	Method	AAT/NAP
Start	556	End	2778
GI	3041758	Score	87
Exons	556..577, 2096..2470, 2627..2778		
GI Descrip.	(D85081) unnamed protein product [Escherichia coli]		

Seq. No.	55521	Seq. ID	OJ000313_36.0421.C12
Gene No.	116312	Strand	+
Start	57	End	2825
Name	OJ000313_36.0421.C12.o1.ts	Method	TBLASTX:Soybean
Start	2053	End	2421
GI	none	Score	125
Exons	2053..2193, 2191..2325, 2232..2321, 2329..2421		

Seq. No.	55521	Seq. ID	OJ000313_36.0421.C12
Gene No.	116312	Strand	+
Start	57	End	2825
Name	OJ000313_36.0421.C12.o1.tm	Method	TBLASTX:Maize
Start	2071	End	2825
GI	none	Score	196
Exons	2071..2208, 2071..2181, 2079..2204, 2190..2474, 2203..2472, 2216..2485, 2218..2481, 2606..2695, 2617..2769, 2619..2813, 2620..2814, 2631..2825		

Seq. No.	55522	Seq. ID	OJ000313_36.0421.C13
Gene No.	116313	Strand	+
Start	199	End	526
Name	OJ000313_36.0421.C13.o1.gp	Method	AAT/GAP
Start	199	End	526
GI	uC-osflcyp084e10a1	Score	642
Exons	199..526		
GI Descrip.	'2618723 5.0e-15 (U49073) IAA17 [Arabidopsis thaliana] >gi_2921756 (AF040631) IAA17/AXR3 protein [Arabidopsis thaliana] >gi_4389514_gb_AAB70451_ (AC000104) Identical to Arabidopsis gb_AF040632 and gb_U49073 IAA17/AXR3 gene. ESTs gb_H36782 and gb_F14074 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	55522	Seq. ID	OJ000313_36.0421.C13
Gene No.	116314	Strand	+
Start	6163	End	8462
Name	OJ000313_36.0421.C13.o2.gs	Method	GENSCAN
Start	6163	End	8462
GI	none	Score	.78
Exons	6163..6340, 8106..8264, 8266..8462		

Seq. No.	55522	Seq. ID	OJ000313_36.0421.C13
Gene No.	116315	Strand	-
Start	1	End	5689
Name	OJ000313_36.0421.C13.o1.np	Method	AAT/NAP
Start	1	End	4423
GI	6664324	Score	764
Exons	1..42, 1116..1258, 1695..1933, 2598..2873, 3033..3075, 3164..3241, 3368..3427, 4346..4423		
GI Descrip.	(AC006932) T27G7.2 [Arabidopsis thaliana]		

Seq. No.	55522	Seq. ID	OJ000313_36.0421.C13
Gene No.	116315	Strand	-
Start	1	End	5689
Name	OJ000313_36.0421.C13.o1.gs	Method	GENSCAN
Start	1112	End	5689
GI	none	Score	.85
Exons	1112..1258, 1695..1937, 2602..2873, 3033..3075, 3164..3241, 3368..3442, 4782..4919, 4997..5109, 5611..5689		

Seq. No.	55522	Seq. ID	OJ000313_36.0421.C13
Gene No.	116315	Strand	-
Start	1	End	5689
Name	OJ000313_36.0421.C13.o2.gp	Method	AAT/GAP
Start	2846	End	5073
GI	35294_1.R1084	Score	832

Exons 2846..2873, 3033..3075, 3164..3241, 3368..3427, 3614..3673,
4782..4919, 4997..5073
GI Descrip. '2865394 1.0e-17 (AF036949) basic leucine zipper protein [Zea
mays]'

Seq. No.	55522	Seq. ID	OJ000313_36.0421.C13
Gene No.	116316	Strand	-
Start	6250	End	6768
Name	OJ000313_36.0421.C13.o1.tm	Method	TBLASTX:Maize
Start	348	End	3454
GI	none	Score	47
Exons	348..392, 441..548, 452..550, 458..547, 551..577, 551..577, 1115..1261, 1115..1261, 1683..1760, 1695..1760, 1696..1809, 1791..1946, 1792..1938, 1792..1962, 1845..1946, 2598..2702, 2602..2748, 2602..2877, 2603..2875, 3011..3076, 3022..3078, 3163..3249, 3164..3244, 3368..3454, 3368..3442		

Seq. No.	55522	Seq. ID	OJ000313_36.0421.C13
Gene No.	116316	Strand	-
Start	6250	End	6768
Name	OJ000313_36.0421.C13.o1.tc	Method	TBLASTX:Cress
Start	1112	End	3424
GI	none	Score	84
Exons	1112..1261, 1170..1271, 1683..1760, 1695..1778, 1791..1946, 1792..1923, 2599..2874, 3158..3244, 3368..3424		

Seq. No.	55522	Seq. ID	OJ000313_36.0421.C13
Gene No.	116316	Strand	-
Start	6250	End	6768
Name	OJ000313_36.0421.C13.o2.ts	Method	TBLASTX:Soybean
Start	1115	End	3433
GI	none	Score	94
Exons	1115..1261, 1133..1261, 1167..1277, 3164..3244, 3368..3433		

Seq. No.	55522	Seq. ID	OJ000313_36.0421.C13
Gene No.	116316	Strand	-
Start	6250	End	6768
Name	OJ000313_36.0421.C13.o1.ts	Method	TBLASTX:Soybean
Start	1780	End	2874
GI	none	Score	124
Exons	1780..1923, 1791..1946, 2603..2692, 2605..2739, 2605..2874		

Seq. No.	55522	Seq. ID	OJ000313_36.0421.C13
Gene No.	116316	Strand	-
Start	6250	End	6768
Name	OJ000313_36.0421.C13.o1.tw	Method	TBLASTX:Wheat
Start	2623	End	3415
GI	none	Score	65
Exons	2623..2874, 3164..3241, 3371..3415		

Seq. No.	55522	Seq. ID	OJ000313_36.0421.C13
Gene No.	116316	Strand	-
Start	6250	End	6768
Name	OJ000313_36.0421.C13.o3.gp	Method	AAT/GAP
Start	6250	End	6768
GI	3106880	Score	752
Exons	6250..6386, 6507..6768		

Seq. No.	55523	Seq. ID	OJ000313_36.0421.C14
Gene No.	116317	Strand	+
Start	1464	End	2786
Name	OJ000313_36.0421.C14.o1.gs	Method	GENSCAN
Start	1464	End	2786
GI	none	Score	.77
Exons	1464..1599, 2629..2786		

Seq. No.	55523	Seq. ID	OJ000313_36.0421.C14
Gene No.	116318	Strand	+
Start	3416	End	4167
Name	OJ000313_36.0421.C14.o2.gs	Method	GENSCAN
Start	3416	End	4167
GI	none	Score	.67
Exons	3416..3504, 3623..3656, 3886..4167		

Seq. No.	55523	Seq. ID	OJ000313_36.0421.C14
Gene No.	116319	Strand	+
Start	6996	End	8945
Name	OJ000313_36.0421.C14.o4.gs	Method	GENSCAN
Start	6996	End	8945
GI	none	Score	.51
Exons	6996..7127, 7720..7856, 8144..8169, 8869..8945		

Seq. No.	55523	Seq. ID	OJ000313_36.0421.C14
Gene No.	116320	Strand	-
Start	1	End	1792
Name	OJ000313_36.0421.C14.o1.np	Method	AAT/NAP
Start	1	End	805
GI	4678207	Score	53
Exons	1..97, 616..805		
GI Descrip.	(AC007134) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	55523	Seq. ID	OJ000313_36.0421.C14
Gene No.	116320	Strand	-
Start	1	End	1792
Name	OJ000313_36.0421.C14.o2.np	Method	AAT/NAP
Start	1	End	1792
GI	135535	Score	98
Exons	1..32, 1660..1792		
GI Descrip.	T-COMPLEX PROTEIN 1, ALPHA SUBUNIT (TCP-1-ALPHA) (CCT-ALPHA) gi 322602 pir JN0448 t-complex polypeptide Tcp-1 - Arabidopsis thaliana gi 217871 dbj BAA01955 (D11351) t-complex polypeptide 1 homologue [Arabidopsis thaliana] gi 2326265 dbj BAA21772 (D11352) CCT alpha/TCP-1 [Arabidopsis thaliana]		

Seq. No.	55523	Seq. ID	OJ000313_36.0421.C14
Gene No.	116321	Strand	-
Start	5401	End	5790
Name	OJ000313_36.0421.C14.o3.gs	Method	GENSCAN
Start	5401	End	5790
GI	none	Score	.75
Exons	5401..5790		

Seq. No.	55523	Seq. ID	OJ000313_36.0421.C14
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Gene No.	116322	Strand	-
Start	10588	End	12341
Name	OJ000313_36.0421.C14.o1.tm	Method	TBLASTX:Maize
Start	605	End	880
GI	none	Score	60
Exons	605..724, 618..710, 716..793, 726..773, 731..775, 773..880, 785..859, 789..878		

Seq. No.	55523	Seq. ID	OJ000313_36.0421.C14
Gene No.	116322	Strand	-
Start	10588	End	12341
Name	OJ000313_36.0421.C14.o1.tw	Method	TBLASTX:Wheat
Start	660	End	880
GI	none	Score	73
Exons	660..752, 662..772, 791..880, 791..880		

Seq. No.	55523	Seq. ID	OJ000313_36.0421.C14
Gene No.	116322	Strand	-
Start	10588	End	12341
Name	OJ000313_36.0421.C14.o5.gs	Method	GENSCAN
Start	10588	End	12341
GI	none	Score	.8
Exons	10588..10877, 12075..12154, 12265..12341		

Seq. No.	55524	Seq. ID	OJ000313_36.0421.C15
Gene No.	116323	Strand	+
Start	935	End	2686
Name	OJ000313_36.0421.C15.o1.gp	Method	AAT/GAP
Start	935	End	2382
GI	none	Score	796
Exons	935..1039, 1435..1581, 2205..2382		

Seq. No.	55524	Seq. ID	OJ000313_36.0421.C15
Gene No.	116323	Strand	+
Start	935	End	2686
Name	OJ000313_36.0421.C15.o2.gs	Method	GENSCAN
Start	1250	End	2686
GI	none	Score	.89
Exons	1250..1284, 1440..1581, 2205..2462, 2555..2686		

Seq. No.	55524	Seq. ID	OJ000313_36.0421.C15
Gene No.	116324	Strand	-
Start	198	End	2252
Name	OJ000313_36.0421.C15.o1.gs	Method	GENSCAN
Start	198	End	632
GI	none	Score	.88
Exons	198..632		

Seq. No.	55524	Seq. ID	OJ000313_36.0421.C15
Gene No.	116324	Strand	-
Start	198	End	2252
Name	OJ000313_36.0421.C15.o1.tm	Method	TBLASTX:Maize
Start	520	End	2252
GI	none	Score	43
Exons	520..567, 554..661, 566..652, 567..659, 713..811, 764..826, 811..873, 930..1037, 935..1042, 938..1042, 1435..1500, 1440..1502, 1450..1503, 1490..1585, 1495..1590, 2204..2251,		

2205..2252

Seq. No.	55524	Seq. ID	OJ000313_36.0421.C15
Gene No.	116325	Strand	
Start	2439	End	2691
Name	OJ000313_36.0421.C15.o2.tm	Method	TBLASTX:Maize
Start	2439	End	2691
GI	none	Score	41
Exons	2439..2465, 2552..2647, 2553..2591, 2554..2688, 2554..2691		

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
Gene No.	116326	Strand	+
Start	1	End	231
Name	OJ000313_36.0421.C16.o1.gp	Method	AAT/GAP
Start	1	End	231
GI	69380_1.R1084	Score	372
Exons	1..231		
GI Descrip.	'4521194/dbj AB013613.1 AB013613 6.0e-40 Oryza sativa DNA, centromere sequence RCB11'		

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
Gene No.	116327	Strand	+
Start	1989	End	6435
Name	OJ000313_36.0421.C16.o1.gs	Method	GENSCAN
Start	1989	End	6435
GI	none	Score	.75
Exons	1989..2241, 3487..3642, 3846..4022, 4673..4821, 4948..5148, 5528..5689, 6115..6435		

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
Gene No.	116327	Strand	+
Start	1989	End	6435
Name	OJ000313_36.0421.C16.o1.np	Method	AAT/NAP
Start	3890	End	6429
GI	7486049	Score	1118
Exons	3890..4022, 4673..4857, 4948..5148, 5528..5689, 6080..6429		
GI Descrip.	hypothetical protein F23K16.20 - Arabidopsis thaliana gi 5042155 emb CAB44674.1 (AL078620) putative protein [Arabidopsis thaliana] gi 7270923 emb CAB80602.1 (AL161595) putative protein [Arabidopsis thaliana]		

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
Gene No.	116327	Strand	+
Start	1989	End	6435
Name	OJ000313_36.0421.C16.o2.gp	Method	AAT/GAP
Start	4672	End	4983
GI	26157_1.R1084	Score	357
Exons	4672..4857, 4948..4983		
GI Descrip.	'4538911/emb CAB39648.1 7.0e-44 (AL049482) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
Gene No.	116328	Strand	+
Start	6338	End	6759
Name	OJ000313_36.0421.C16.o3.gp	Method	AAT/GAP
Start	6338	End	6759
GI	3761691	Score	597

Exons .6338..6759

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
Gene No.	116329	Strand	-
Start	7693	End	8342
Name	OJ000313_36.0421.C16.o2.ts	Method	TBLASTX:Soybean
Start	3886	End	6500
GI	none	Score	124
Exons	3886..4020, 3938..4036, 3944..4024, 4674..4856, 4714..4866, 4734..4865, 4931..5029, 4936..5148, 4937..5029, 4938..5030, 4945..5148, 5528..5674, 5530..5661, 6114..6500, 6118..6369		

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
Gene No.	116329	Strand	-
Start	7693	End	8342
Name	OJ000313_36.0421.C16.o2.tm	Method	TBLASTX:Maize
Start	3938	End	6597
GI	none	Score	133
Exons	3938..4036, 3938..4021, 4672..4857, 4674..4856, 4714..4866, 4725..4871, 4873..5148, 4944..5147, 4945..5148, 5515..5685, 5528..5689, 5529..5687, 5530..5688, 6114..6434, 6115..6435, 6115..6435, 6320..6439, 6529..6597, 6555..6587		

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
Gene No.	116329	Strand	-
Start	7693	End	8342
Name	OJ000313_36.0421.C16.o3.tc	Method	TBLASTX:Cress
Start	4777	End	5608
GI	none	Score	95
Exons	4777..4866, 4870..5145, 4947..5078, 5540..5608		

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
Gene No.	116329	Strand	-
Start	7693	End	8342
Name	OJ000313_36.0421.C16.o2.tc	Method	TBLASTX:Cress
Start	6159	End	6369
GI	none	Score	255
Exons	6159..6365, 6160..6369		

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
Gene No.	116329	Strand	-
Start	7693	End	8342
Name	OJ000313_36.0421.C16.o2.gs	Method	GENSCAN
Start	7693	End	8264
GI	none	Score	.97
Exons	7693..8264		

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
Gene No.	116329	Strand	-
Start	7693	End	8342
Name	OJ000313_36.0421.C16.o2.np	Method	AAT/NAP
Start	7696	End	8342
GI	5869975	Score	721
Exons	7696..8342		
GI Descrip.	(AJ237943) germin-like protein [Triticum aestivum]		

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
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Gene No.	116329	Strand	-
Start	7693	End	8342
Name	OJ000313_36.0421.C16.o1.tm	Method	TBLASTX:Maize
Start	7699	End	8266
GI	none	Score	199
Exons	7699..7875, 7703..7876, 7885..7962, 7892..7948, 7976..8257, 7978..8265, 7982..8173, 8175..8192, 8195..8266		

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
Gene No.	116329	Strand	-
Start	7693	End	8342
Name	OJ000313_36.0421.C16.o1.ts	Method	TBLASTX:Soybean
Start	7702	End	8266
GI	none	Score	64
Exons	7702..7866, 7704..7859, 7733..7867, 7872..7955, 7876..7962, 7876..7965, 7892..7966, 7969..8151, 7970..8119, 7975..8172, 7982..8158, 8204..8266, 8206..8265		

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
Gene No.	116329	Strand	-
Start	7693	End	8342
Name	OJ000313_36.0421.C16.o1.tc	Method	TBLASTX:Cress
Start	7714	End	8278
GI	none	Score	141
Exons	7714..7869, 7715..7873, 7885..7962, 7907..7957, 7969..8172, 7988..8173, 8204..8278, 8206..8265		

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
Gene No.	116329	Strand	-
Start	7693	End	8342
Name	OJ000313_36.0421.C16.o1.tw	Method	TBLASTX:Wheat
Start	7798	End	8266
GI	none	Score	185
Exons	7798..7986, 7799..7963, 7830..7964, 7950..8114, 7952..8116, 7975..8133, 7976..8137, 8134..8166, 8135..8167, 8167..8265, 8168..8266, 8168..8266		

Seq. No.	55525	Seq. ID	OJ000313_36.0421.C16
Gene No.	116329	Strand	-
Start	7693	End	8342
Name	OJ000313_36.0421.C16.o4.gp	Method	AAT/GAP
Start	8021	End	8267
GI	LIB3433-011-Q6-K1-E11	Score	454
Exons	8021..8267		
GI Descrip.	'5869975/emb CAB55559.1 2.0e-41 (AJ237943) germin-like protein [Triticum aestivum]'		

Seq. No.	55526	Seq. ID	OJ000313_36.0421.C17
Gene No.	116330	Strand	-
Start	681	End	1796
Name	OJ000313_36.0421.C17.o1.gs	Method	GENSCAN
Start	681	End	1796
GI	none	Score	.83
Exons	681..749, 1556..1624, 1743..1796		

Seq. No.	55526	Seq. ID	OJ000313_36.0421.C17
Gene No.	116331	Strand	-

Start	2741	End	2820
Name	OJ000313_36.0421.C17.o1.np	Method	AAT/NAP
Start	2741	End	2820
GI	7447340	Score	113
Exons	2741..2820		
GI Descrip.	germin-like protein - barley gi 1070358 emb CAA63659.1 (X93171) oxalate oxidase-like protein or germin-like protein [Hordeum vulgare]		

Seq. No.	55527	Seq. ID	OJ000313_31.0421.C1
Gene No.	116332	Strand	+
Start	1	End	2150
Name	OJ000313_31.0421.C1.o1.np	Method	AAT/NAP
Start	1	End	2026
GI	5441896	Score	1428
Exons	1..173, 873..1012, 1080..1260, 1496..1641, 1747..2026		
GI Descrip.	(AP000367) ESTs D23521(C2939),C22481(C2939) correspond to a region of the predicted gene.; Similar to serine/threonine protein kinase like protein. (AL022140) [Oryza sativa]		

Seq. No.	55527	Seq. ID	OJ000313_31.0421.C1
Gene No.	116332	Strand	+
Start	1	End	2150
Name	OJ000313_31.0421.C1.o1.gs	Method	GENSCAN
Start	61	End	1931
GI	none	Score	.57
Exons	61..173, 873..1012, 1080..1260, 1496..1664, 1825..1931		

Seq. No.	55527	Seq. ID	OJ000313_31.0421.C1
Gene No.	116332	Strand	+
Start	1	End	2150
Name	OJ000313_31.0421.C1.o1.gp	Method	AAT/GAP
Start	90	End	1552
GI	uC-osroM202025h03b1	Score	724
Exons	90..173, 873..1012, 1080..1236, 1496..1552		
GI Descrip.	'5441896/dbj BAA82394.1 3.0e-57 (AP000367) ESTs D23521(C2939),C22481(C2939) correspond to a region of the predicted gene.; Similar to serine/threonine protein kinase like protein. (AL022140) [Oryza sativa]'		

Seq. No.	55527	Seq. ID	OJ000313_31.0421.C1
Gene No.	116332	Strand	+
Start	1	End	2150
Name	OJ000313_31.0421.C1.o2.gp	Method	AAT/GAP
Start	1747	End	2150
GI	2317427	Score	733
Exons	1747..2150		
GI Descrip.	5441896/dbj BAA82394.1 4.0e-30 (AP000367) ESTs D23521(C2939),C22481(C2939) correspond to a region of the predicted gene.; Similar to serine/threonine protein kinase like protein. (AL022140) [Oryza sativa]		

Seq. No.	55527	Seq. ID	OJ000313_31.0421.C1
Gene No.	116333	Strand	+
Start	2380	End	2890
Name	OJ000313_31.0421.C1.o3.gp	Method	AAT/GAP
Start	2380	End	2890

GI 1654_1.R1084 Score 995
 Exons 2380..2890
 GI Descrip. '5441896/dbj|BAA82394.1| 4.0e-30 (AP000367) ESTs
 D23521(C2939),C22481(C2939) correspond to a region of the
 predicted gene.; Similar to serine/threonine protein kinase like
 protein. (AL022140) [Oryza sativa]'

Seq. No. 55527 Seq. ID OJ000313_31.0421.C1
 Gene No. 116334 Strand +
 Start 10427 End 11751
 Name OJ000313_31.0421.C1.o3.np Method AAT/NAP
 Start 10427 End 11751
 GI 7446381 Score 50
 Exons 10427..10447, 11664..11751
 GI Descrip. protein kinase homolog TlF15.2 - Arabidopsis thaliana
 gi|3176660|gb|AAC18784.1| (AC004393) Similar to ERECTA receptor
 protein kinase gb|U47029 from A. thaliana. [Arabidopsis
 thaliana] gi|6382533|gb|AAF07815.1|AC011020_15 (AC011020)
 putative receptor protein kinase [Arabidopsis thaliana]

Seq. No. 55527 Seq. ID OJ000313_31.0421.C1
 Gene No. 116335 Strand -
 Start 2662 End 12079
 Name OJ000313_31.0421.C1.o3.tm Method TBLASTX:Maize
 Start 33 End 1236
 GI none Score 116
 Exons 33..149, 855..1010, 1072..1236

Seq. No. 55527 Seq. ID OJ000313_31.0421.C1
 Gene No. 116335 Strand -
 Start 2662 End 12079
 Name OJ000313_31.0421.C1.o3.ts Method TBLASTX:Soybean
 Start 33 End 1591
 GI none Score 113
 Exons 33..140, 38..142, 888..1010, 1078..1236, 1490..1591

Seq. No. 55527 Seq. ID OJ000313_31.0421.C1
 Gene No. 116335 Strand -
 Start 2662 End 12079
 Name OJ000313_31.0421.C1.o1.tm Method TBLASTX:Maize
 Start 2660 End 6712
 GI none Score 101
 Exons 2660..2698, 2662..2754, 2662..2979, 2663..3019, 3029..3376,
 3049..4002, 3310..3783, 3458..3889, 3947..3997, 4009..4095,
 4028..4096, 5853..5945, 5854..5946, 6331..6411, 6335..6412,
 6493..6546, 6493..6576, 6494..6547, 6559..6711, 6608..6712

Seq. No. 55527 Seq. ID OJ000313_31.0421.C1
 Gene No. 116335 Strand -
 Start 2662 End 12079
 Name OJ000313_31.0421.C1.o1.tc Method TBLASTX:Cress
 Start 2662 End 7925
 GI none Score 457
 Exons 2662..2982, 2663..3223, 3049..3384, 3385..4101, 3458..3886,
 3983..4102, 5853..5975, 5854..5973, 6331..6411, 6499..6687,
 7156..7308, 7169..7234, 7303..7398, 7486..7563, 7594..7695,
 7601..7696, 7851..7925

Seq. No.	55527	Seq. ID	OJ000313_31.0421.C1
Gene No.	116335	Strand	-
Start	2662	End	12079
Name	OJ000313_31.0421.C1.o2.gs	Method	GENSCAN
Start	2662	End	4119
GI	none	Score	.97
Exons	2662..4119		

Seq. No.	55527	Seq. ID	OJ000313_31.0421.C1
Gene No.	116335	Strand	-
Start	2662	End	12079
Name	OJ000313_31.0421.C1.o1.ts	Method	TBLASTX:Soybean
Start	2662	End	7689
GI	none	Score	330
Exons	2662..2979, 2666..3226, 3049..3384, 3305..3376, 3391..3756, 3403..3765, 3473..3763, 3781..3987, 3782..3889, 7600..7689, 7607..7687		

Seq. No.	55527	Seq. ID	OJ000313_31.0421.C1
Gene No.	116335	Strand	-
Start	2662	End	12079
Name	OJ000313_31.0421.C1.o2.np	Method	AAT/NAP
Start	2665	End	8225
GI	7433169	Score	2459
Exons	2665..4095, 5862..5947, 6333..6438, 6493..6710, 7152..7389, 7486..7751, 7847..7930, 7970..8225		
GI Descrip.	probable lipoxygenase (EC 1.13.11.12) (clone H1) - potato gi 1495802 emb CAA65268.1 (X96405) 13-lipoxygenase [Solanum tuberosum]		

Seq. No.	55527	Seq. ID	OJ000313_31.0421.C1
Gene No.	116335	Strand	-
Start	2662	End	12079
Name	OJ000313_31.0421.C1.o2.tw	Method	TBLASTX:Wheat
Start	3091	End	3408
GI	none	Score	57
Exons	3091..3201, 3092..3202, 3196..3396, 3313..3408		

Seq. No.	55527	Seq. ID	OJ000313_31.0421.C1
Gene No.	116335	Strand	-
Start	2662	End	12079
Name	OJ000313_31.0421.C1.o1.tw	Method	TBLASTX:Wheat
Start	3469	End	3894
GI	none	Score	182
Exons	3469..3747, 3469..3750, 3755..3886, 3817..3894		

Seq. No.	55527	Seq. ID	OJ000313_31.0421.C1
Gene No.	116335	Strand	-
Start	2662	End	12079
Name	OJ000313_31.0421.C1.o3.gs	Method	GENSCAN
Start	5778	End	12079
GI	none	Score	.48
Exons	5778..5947, 6333..6710, 7152..7410, 7486..7751, 7847..8207, 9433..9568, 11713..11840, 11926..12079		

Seq. No.	55527	Seq. ID	OJ000313_31.0421.C1
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Gene No.	116335	Strand	-
Start	2662	End	12079
Name	OJ000313_31.0421.C1.o2.ts	Method	TBLASTX:Soybean
Start	6541	End	7389
GI	none	Score	70
Exons	6541..6711, 7156..7389, 7157..7222		

Seq. No.	55527	Seq. ID	OJ000313_31.0421.C1
Gene No.	116335	Strand	-
Start	2662	End	12079
Name	OJ000313_31.0421.C1.o2.tm	Method	TBLASTX:Maize
Start	7156	End	8036
GI	none	Score	52
Exons	7156..7212, 7160..7198, 7199..7225, 7201..7398, 7352..7390, 7486..7569, 7487..7564, 7573..7821, 7574..7822, 7851..8036		

Seq. No.	55527	Seq. ID	OJ000313_31.0421.C1
Gene No.	116335	Strand	-
Start	2662	End	12079
Name	OJ000313_31.0421.C1.o4.gp	Method	AAT/GAP
Start	7311	End	7603
GI	LIB3432-010-P1-K1-D4	Score	348
Exons	7311..7389, 7486..7603		
GI Descrip.	'1495802/emb CAA65268 , 1.0e-16 (X96405) 13-lipoxygenase [Solanum tuberosum]'		

Seq. No.	55527	Seq. ID	OJ000313_31.0421.C1
Gene No.	116335	Strand	-
Start	2662	End	12079
Name	OJ000313_31.0421.C1.o5.gp	Method	AAT/GAP
Start	7681	End	8313
GI	4715031	Score	888
Exons	7681..7753, 7847..8313		

Seq. No.	55528	Seq. ID	OJ000313_31.0421.C2
Gene No.	116336	Strand	-
Start	1	End	6766
Name	OJ000313_31.0421.C2.o1.np	Method	AAT/NAP
Start	1	End	4270
GI	6729532	Score	868
Exons	1..94, 643..747, 1405..1779, 2493..2622, 3721..4144, 4216..4270		
GI Descrip.	(AL132977) putative protein [Arabidopsis thaliana]		

Seq. No.	55528	Seq. ID	OJ000313_31.0421.C2
Gene No.	116336	Strand	-
Start	1	End	6766
Name	OJ000313_31.0421.C2.o1.tm	Method	TBLASTX:Maize
Start	9	End	3777
GI	none	Score	103
Exons	9..95, 17..148, 17..97, 639..749, 640..747, 641..751, 677..754, 1402..1500, 1403..1498, 1405..1506, 1489..1794, 1550..1795, 1578..1805, 1837..1881, 2490..2636, 2492..2632, 3696..3776, 3697..3777		

Seq. No.	55528	Seq. ID	OJ000313_31.0421.C2
Gene No.	116336	Strand	-
Start	1	End	6766

Name	OJ000313_31.0421.C2.o1.ts	Method	TBLASTX:Soybean
Start	17	End	4094
GI	none	Score	72
Exons	17..97, 20..97, 643..747, 644..748, 1402..1485, 1403..1486, 1417..1494, 1537..1752, 1543..1743, 1550..1762, 1741..1794, 1742..1795, 2490..2636, 2527..2634, 3696..3845, 3706..3831, 4044..4094		

Seq. No.	55528	Seq. ID	OJ000313_31.0421.C2
Gene No.	116336	Strand	-
Start	1	End	6766
Name	OJ000313_31.0421.C2.o1.gs	Method	GENSCAN
Start	22	End	6766
GI	none	Score	.67
Exons	22..94, 407..556, 643..747, 1405..1794, 2493..2633, 3699..4241, 6686..6766		

Seq. No.	55529	Seq. ID	OJ000313_31.0421.C4
Gene No.	116337	Strand	+
Start	347	End	800
Name	OJ000313_31.0421.C4.o1.gp	Method	AAT/GAP
Start	347	End	800
GI	none	Score	884
Exons	347..800		

Seq. No.	55529	Seq. ID	OJ000313_31.0421.C4
Gene No.	116338	Strand	+
Start	1661	End	4550
Name	OJ000313_31.0421.C4.o1.gs	Method	GENSCAN
Start	1661	End	4550
GI	none	Score	.72
Exons	1661..1736, 2610..2845, 2968..3120, 3553..3633, 3743..3797, 4252..4550		

Seq. No.	55529	Seq. ID	OJ000313_31.0421.C4
Gene No.	116338	Strand	+
Start	1661	End	4550
Name	OJ000313_31.0421.C4.o1.np	Method	AAT/NAP
Start	3046	End	4550
GI	100099	Score	281
Exons	3046..3120, 3553..3633, 4205..4328, 4356..4550		
GI Descrip.	DNA-binding protein VBP1 - fava bean gi 1372966 (M81827) CREB-like protein [Vicia faba]		

Seq. No.	55529	Seq. ID	OJ000313_31.0421.C4
Gene No.	116339	Strand	+
Start	7271	End	7358
Name	OJ000313_31.0421.C4.o1.ts	Method	TBLASTX:Soybean
Start	3052	End	4579
GI	none	Score	104
Exons	3052..3120, 3553..3612, 4263..4331, 4353..4553, 4463..4579		

Seq. No.	55529	Seq. ID	OJ000313_31.0421.C4
Gene No.	116339	Strand	+
Start	7271	End	7358
Name	OJ000313_31.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	3058	End	4550

GI	none	Score	88
Exons	3058..3120, 3553..3612, 3596..3625, 4253..4297, 4254..4331, 4347..4550, 4415..4549, 4425..4550		

Seq. No.	55529	Seq. ID	OJ000313_31.0421.C4
Gene No.	116339	Strand	+
Start	7271	End	7358
Name	OJ000313_31.0421.C4.o1.tw	Method	TBLASTX:Wheat
Start	4295	End	4570
GI	none	Score	282
Exons	4295..4570, 4296..4553		

Seq. No.	55529	Seq. ID	OJ000313_31.0421.C4
Gene No.	116339	Strand	+
Start	7271	End	7358
Name	OJ000313_31.0421.C4.o2.gp	Method	AAT/GAP
Start	7271	End	7358
GI	LIB3477-003-P1-K1-E9	Score	133
Exons	7271..7358		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	55530	Seq. ID	OJ000313_31.0421.C5
Gene No.	116340	Strand	-
Start	3560	End	5552
Name	OJ000313_31.0421.C5.o2.gs	Method	GENSCAN
Start	3560	End	5552
GI	none	Score	.71
Exons	3560..3715, 4082..4395, 4829..4998, 5100..5184, 5528..5552		

Seq. No.	55530	Seq. ID	OJ000313_31.0421.C5
Gene No.	116340	Strand	-
Start	3560	End	5552
Name	OJ000313_31.0421.C5.o1.gp	Method	AAT/GAP
Start	3666	End	4389
GI	none	Score	696
Exons	3666..3715, 4082..4389		

Seq. No.	55530	Seq. ID	OJ000313_31.0421.C5
Gene No.	116341	Strand	-
Start	7709	End	11630
Name	OJ000313_31.0421.C5.o2.ts	Method	TBLASTX:Soybean
Start	2486	End	11630
GI	none	Score	62
Exons	2486..2581, 11483..11629, 11484..11630		

Seq. No.	55530	Seq. ID	OJ000313_31.0421.C5
Gene No.	116341	Strand	-
Start	7709	End	11630
Name	OJ000313_31.0421.C5.o2.tm	Method	TBLASTX:Maize
Start	3517	End	4358
GI	none	Score	47
Exons	3517..3555, 3518..3556, 3551..3715, 3553..3729, 3558..3716, 4066..4314, 4067..4354, 4080..4358, 4080..4355, 4082..4357		

Seq. No.	55530	Seq. ID	OJ000313_31.0421.C5
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Gene No.	116341	Strand	-
Start	7709	End	11630
Name	OJ000313_31.0421.C5.o3.tc	Method	TBLASTX:Cress
Start	3563	End	4147
GI	none	Score	175
Exons	3563..3715, 3564..3716, 4082..4147		

Seq. No.	55530	Seq. ID	OJ000313_31.0421.C5
Gene No.	116341	Strand	-
Start	7709	End	11630
Name	OJ000313_31.0421.C5.o1.ts	Method	TBLASTX:Soybean
Start	4095	End	4995
GI	none	Score	103
Exons	4095..4217, 4097..4207, 4266..4400, 4268..4399, 4271..4408, 4827..4913, 4828..4914, 4912..4992, 4914..4994, 4915..4995		

Seq. No.	55530	Seq. ID	OJ000313_31.0421.C5
Gene No.	116341	Strand	-
Start	7709	End	11630
Name	OJ000313_31.0421.C5.o2.tc	Method	TBLASTX:Cress
Start	4244	End	5180
GI	none	Score	49
Exons	4244..4276, 4247..4303, 4302..4400, 4304..4399, 4827..5000, 4828..5007, 5096..5179, 5097..5180		

Seq. No.	55530	Seq. ID	OJ000313_31.0421.C5
Gene No.	116341	Strand	-
Start	7709	End	11630
Name	OJ000313_31.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	4933	End	5955
GI	none	Score	93
Exons	4933..5001, 4935..5000, 4942..5001, 5100..5186, 5100..5186, 5101..5187, 5102..5221, 5523..5909, 5524..5955, 5528..5917		

Seq. No.	55530	Seq. ID	OJ000313_31.0421.C5
Gene No.	116341	Strand	-
Start	7709	End	11630
Name	OJ000313_31.0421.C5.o1.tc	Method	TBLASTX:Cress
Start	5628	End	5904
GI	none	Score	76
Exons	5628..5747, 5629..5733, 5645..5749, 5646..5735, 5748..5903, 5748..5903, 5764..5904		

Seq. No.	55530	Seq. ID	OJ000313_31.0421.C5
Gene No.	116341	Strand	-
Start	7709	End	11630
Name	OJ000313_31.0421.C5.o3.gs	Method	GENSCAN
Start	7709	End	11620
GI	none	Score	.7
Exons	7709..8054, 8107..8440, 9355..9502, 9522..9644, 10040..10248, 10997..11102, 11426..11620		

Seq. No.	55530	Seq. ID	OJ000313_31.0421.C5
Gene No.	116341	Strand	-
Start	7709	End	11630
Name	OJ000313_31.0421.C5.o2.gp	Method	AAT/GAP
Start	10642	End	11630

GI 33112_1.R1084 Score 1292
 Exons 10642..11102, 11426..11630
 GI Descrip. '1363051/pir|A56534 2.0e-23 P58 protein - bovine >gi_468012 (U04631) PKR inhibitor P58 [Bos taurus]'

Seq. No. 55530 Seq. ID OJ000313_31.0421.C5
 Gene No. 116341 Strand -
 Start 7709 End 11630
 Name OJ000313_31.0421.C5.o3.tm Method TBLASTX:Maize
 Start 10731 End 11548
 GI none Score 36
 Exons 10731..10763, 10895..10918, 10896..10922, 10914..11015, 10958..11020, 10981..11028, 11033..11104, 11046..11105, 11423..11548, 11424..11546, 11425..11547

Seq. No. 55530 Seq. ID OJ000313_31.0421.C5
 Gene No. 116341 Strand -
 Start 7709 End 11630
 Name OJ000313_31.0421.C5.o1.np Method AAT/NAP
 Start 10926 End 11630
 GI 7413593 Score 461
 Exons 10926..11102, 11426..11630
 GI Descrip. (AL163002) putative protein [Arabidopsis thaliana]

Seq. No. 55531 Seq. ID OJ000313_31.0421.C6
 Gene No. 116342 Strand +
 Start 3002 End 8677
 Name OJ000313_31.0421.C6.o2.np Method AAT/NAP
 Start 3002 End 7491
 GI 5852180 Score 326
 Exons 3002..3088, 3944..4411, 7461..7491
 GI Descrip. (AL117265) zhb00010.1 [Oryza sativa]

Seq. No. 55531 Seq. ID OJ000313_31.0421.C6
 Gene No. 116342 Strand +
 Start 3002 End 8677
 Name OJ000313_31.0421.C6.o2.gs Method GENSCAN
 Start 5742 End 8067
 GI none Score .82
 Exons 5742..5938, 6158..6795, 6892..7094, 7183..7380, 7972..8067

Seq. No. 55531 Seq. ID OJ000313_31.0421.C6
 Gene No. 116342 Strand +
 Start 3002 End 8677
 Name OJ000313_31.0421.C6.o3.np Method AAT/NAP
 Start 6401 End 8677
 GI 5881940 Score 359
 Exons 6401..6795, 6892..7094, 7183..7380, 7478..7549, 7972..8067, 8603..8677
 GI Descrip. (AL117387) putative secreted protein [Streptomyces coelicolor A3(2)]

Seq. No. 55531 Seq. ID OJ000313_31.0421.C6
 Gene No. 116342 Strand +
 Start 3002 End 8677
 Name OJ000313_31.0421.C6.o3.gp Method AAT/GAP
 Start 7048 End 8666

GI 9455_1.R1084 Score 803
 Exons 7048..7094, 7183..7380, 7478..7549, 7972..8067, 8603..8666
 GI Descrip. '416325/gb|U03454|PRS423 2.0e-15 Yeast episomal vector pRS423
 with HIS3 marker, complete sequence'

Seq. No. 55531 Seq. ID OJ000313_31.0421.C6
 Gene No. 116343 Strand -
 Start 1 End 3565
 Name OJ000313_31.0421.C6.o1.gp Method AAT/GAP
 Start 1 End 634
 GI 33112_1.R1084 Score 131
 Exons 1..40, 553..634
 GI Descrip. '1363051/pir||A56534 2.0e-23 P58 protein - bovine >gi_468012
 (U04631) PKR inhibitor P58 [Bos taurus]'

Seq. No. 55531 Seq. ID OJ000313_31.0421.C6
 Gene No. 116343 Strand -
 Start 1 End 3565
 Name OJ000313_31.0421.C6.o1.np Method AAT/NAP
 Start 1 End 2679
 GI 7413593 Score 893
 Exons 1..79, 553..637, 1123..1335, 1413..1506, 1636..1796, 1890..2091,
 2395..2679
 GI Descrip. (AL163002) putative protein [Arabidopsis thaliana]

Seq. No. 55531 Seq. ID OJ000313_31.0421.C6
 Gene No. 116343 Strand -
 Start 1 End 3565
 Name OJ000313_31.0421.C6.o1.gs Method GENSCAN
 Start 501 End 3062
 GI none Score .88
 Exons 501..511, 1221..1335, 1413..1506, 1636..1796, 1890..2091,
 2395..2560, 2984..3062

Seq. No. 55531 Seq. ID OJ000313_31.0421.C6
 Gene No. 116343 Strand -
 Start 1 End 3565
 Name OJ000313_31.0421.C6.o2.tc Method TBLASTX:Cress
 Start 1255 End 1802
 GI none Score 67
 Exons 1255..1335, 1259..1363, 1413..1508, 1414..1509, 1632..1802,
 1635..1757, 1663..1800

Seq. No. 55531 Seq. ID OJ000313_31.0421.C6
 Gene No. 116343 Strand -
 Start 1 End 3565
 Name OJ000313_31.0421.C6.o2.tm Method TBLASTX:Maize
 Start 1284 End 1993
 GI none Score 63
 Exons 1284..1331, 1284..1331, 1285..1335, 1286..1342, 1383..1508,
 1413..1508, 1414..1509, 1632..1799, 1634..1798, 1636..1803,
 1848..1988, 1888..1980, 1889..1993, 1890..1991

Seq. No. 55531 Seq. ID OJ000313_31.0421.C6
 Gene No. 116343 Strand -
 Start 1 End 3565
 Name OJ000313_31.0421.C6.o1.tw Method TBLASTX:Wheat

Start	1925	End	2583
GI	none	Score	164
Exons	1925..2089, 1925..2110, 1926..2141, 2376..2573, 2382..2555, 2395..2583		

Seq. No.	55531	Seq. ID	OJ000313_31.0421.C6
Gene No.	116343	Strand	-
Start	1	End	3565
Name	OJ000313_31.0421.C6.o3.tm	Method	TBLASTX:Maize
Start	1994	End	2573
GI	none	Score	97
Exons	1994..2086, 1994..2119, 1995..2141, 2382..2561, 2383..2538, 2392..2562, 2394..2573		

Seq. No.	55531	Seq. ID	OJ000313_31.0421.C6
Gene No.	116343	Strand	-
Start	1	End	3565
Name	OJ000313_31.0421.C6.o2.gp	Method	AAT/GAP
Start	2046	End	3565
GI	uC-osrocyp036h10b1	Score	814
Exons	2046..2091, 2395..2560, 2984..3087, 3445..3565		
GI Descrip.	'5852170/emb AL117265.1 OST17804 4.0e-20 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	55531	Seq. ID	OJ000313_31.0421.C6
Gene No.	116344	Strand	-
Start	6639	End	8067
Name	OJ000313_31.0421.C6.o1.tc	Method	TBLASTX:Cress
Start	6639	End	8058
GI	none	Score	171
Exons	6639..6797, 6884..7105, 6885..7115, 6885..7118, 7255..7380, 7258..7365, 7260..7379, 7472..7549, 7501..7542, 7963..8058, 7965..8057		

Seq. No.	55531	Seq. ID	OJ000313_31.0421.C6
Gene No.	116344	Strand	-
Start	6639	End	8067
Name	OJ000313_31.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	6891	End	8067
GI	none	Score	336
Exons	6891..7109, 6893..7135, 7180..7215, 7182..7214, 7278..7379, 7279..7380, 7282..7380, 7283..7381, 7472..7549, 7476..7550, 7486..7551, 7486..7548, 7949..8065, 7950..8066, 7956..8066, 7963..8067		

Seq. No.	55531	Seq. ID	OJ000313_31.0421.C6
Gene No.	116344	Strand	-
Start	6639	End	8067
Name	OJ000313_31.0421.C6.o1.ts	Method	TBLASTX:Soybean
Start	7180	End	8043
GI	none	Score	224
Exons	7180..7380, 7182..7355, 7472..7549, 7489..7545, 7963..8043, 7993..8043		

Seq. No.	55532	Seq. ID	OJ000313_31.0421.C7
Gene No.	116345	Strand	-
Start	528	End	1229

Name	OJ000313_31.0421.C7.ol.tm	Method	TBLASTX:Maize
Start	523	End	768
GI	none	Score	66
Exons	523..621, 525..599, 527..622, 528..662, 723..767, 724..768		

Seq. No.	55532	Seq. ID	OJ000313_31.0421.C7
Gene No.	116345	Strand	-
Start	528	End	1229
Name	OJ000313_31.0421.C7.ol.gs	Method	GENSCAN
Start	528	End	1229
GI	none	Score	.98
Exons	528..621, 726..1229		

Seq. No.	55533	Seq. ID	OJ000313_31.0421.C8
Gene No.	116346	Strand	-
Start	2166	End	3897
Name	OJ000313_31.0421.C8.ol.np	Method	AAT/NAP
Start	2166	End	3897
GI	6721516	Score	558
Exons	2166..2337, 2889..3243, 3658..3897		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	55533	Seq. ID	OJ000313_31.0421.C8
Gene No.	116347	Strand	-
Start	4189	End	4707
Name	OJ000313_31.0421.C8.ol.ts	Method	TBLASTX:Soybean
Start	4189	End	4707
GI	none	Score	83
Exons	4189..4311, 4375..4707		

Seq. No.	55533	Seq. ID	OJ000313_31.0421.C8
Gene No.	116347	Strand	-
Start	4189	End	4707
Name	OJ000313_31.0421.C8.ol.tw	Method	TBLASTX:Wheat
Start	4222	End	4611
GI	none	Score	89
Exons	4222..4356, 4369..4611		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.ol.np	Method	AAT/NAP
Start	1	End	2817
GI	4416302	Score	3172
Exons	1..2817		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o5.tm	Method	TBLASTX:Maize
Start	8	End	292
GI	none	Score	48
Exons	8..43, 34..225, 34..225, 38..232, 50..235, 209..292		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+

Start	1	End	5780
Name	OJ000313_31.0421.C9.o2.tw	Method	TBLASTX:Wheat
Start	77	End	636
GI	none	Score	142
Exons	77..235, 233..310, 233..319, 350..562, 350..565, 363..572, 561..626, 565..627, 571..636		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o1.gs	Method	GENSCAN
Start	119	End	5780
GI	none	Score	.76
Exons	119..565, 715..2125, 2327..2500, 4480..5214, 5251..5780		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o2.tm	Method	TBLASTX:Maize
Start	299	End	1158
GI	none	Score	109
Exons	299..370, 325..372, 370..597, 371..562, 423..563, 561..788, 561..947, 565..987, 565..987, 996..1055, 1003..1158, 1048..1086		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o3.ts	Method	TBLASTX:Soybean
Start	479	End	939
GI	none	Score	78
Exons	479..562, 508..564, 561..668, 565..939, 735..887		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o4.tw	Method	TBLASTX:Wheat
Start	721	End	1062
GI	none	Score	96
Exons	721..798, 805..951, 814..951, 815..958, 973..1062, 1014..1052		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o4.tm	Method	TBLASTX:Maize
Start	1159	End	1446
GI	none	Score	291
Exons	1159..1407, 1179..1406, 1396..1446, 1398..1445		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o1.ts	Method	TBLASTX:Soybean
Start	1174	End	1787
GI	5509260	Score	712
Exons	1174..1782, 1269..1787, 1701..1787		
GI Descrip.	-		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o1.tw	Method	TBLASTX:Wheat
Start	1303	End	1779
GI	none	Score	84
Exons	1303..1392, 1399..1425, 1426..1770, 1432..1560, 1434..1763, 1603..1779		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o2.tc	Method	TBLASTX:Cress
Start	1395	End	1668
GI	none	Score	196
Exons	1395..1541, 1396..1668, 1462..1542		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o3.tm	Method	TBLASTX:Maize
Start	1447	End	1914
GI	none	Score	584
Exons	1447..1914, 1447..1566, 1449..1907		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o6.tm	Method	TBLASTX:Maize
Start	1956	End	2148
GI	none	Score	256
Exons	1956..2147, 1957..2148		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o3.tw	Method	TBLASTX:Wheat
Start	1963	End	2394
GI	none	Score	102
Exons	1963..2124, 2137..2394		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o1.tm	Method	TBLASTX:Maize
Start	2149	End	2911
GI	none	Score	907
Exons	2149..2811, 2151..2825, 2488..2826, 2712..2816, 2714..2827, 2714..2836, 2855..2911		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o2.ts	Method	TBLASTX:Soybean
Start	2158	End	2823
GI	none	Score	308
Exons	2158..2541, 2163..2534, 2170..2541, 2575..2823, 2583..2750		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o1.tc	Method	TBLASTX:Cress
Start	2338	End	2796
GI	none	Score	65
Exons	2338..2427, 2431..2565, 2551..2796		

Seq. No.	55534	Seq. ID	OJ000313_31.0421.C9
Gene No.	116348	Strand	+
Start	1	End	5780
Name	OJ000313_31.0421.C9.o5.tw	Method	TBLASTX:Wheat
Start	2431	End	2763
GI	none	Score	105
Exons	2431..2556, 2451..2552, 2575..2763, 2631..2750		

Seq. No.	55535	Seq. ID	OJ000313_31.0421.C10
Gene No.	116349	Strand	+
Start	582	End	1611
Name	OJ000313_31.0421.C10.o1.gs	Method	GENSCAN
Start	582	End	1611
GI	none	Score	.46
Exons	582..648, 1134..1336, 1382..1611		

Seq. No.	55535	Seq. ID	OJ000313_31.0421.C10
Gene No.	116350	Strand	-
Start	1	End	1820
Name	OJ000313_31.0421.C10.o1.np	Method	AAT/NAP
Start	1	End	1820
GI	6721516	Score	506
Exons	1..257, 672..918, 1390..1820		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	55536	Seq. ID	OJ000313_31.0421.C12
Gene No.	116351	Strand	-
Start	590	End	931
Name	OJ000313_31.0421.C12.o1.gp	Method	AAT/GAP
Start	590	End	931
GI	LIB3477-003-P1-K1-E9	Score	136
Exons	590..628, 728..804, 910..931		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	55537	Seq. ID	OJ000313_31.0421.C13
Gene No.	116352	Strand	+
Start	54	End	2046
Name	OJ000313_31.0421.C13.o1.gs	Method	GENSCAN
Start	54	End	2027
GI	none	Score	.57
Exons	54..791, 1593..2027		

Seq. No.	55537	Seq. ID	OJ000313_31.0421.C13
Gene No.	116352	Strand	+
Start	54	End	2046
Name	OJ000313_31.0421.C13.o1.np	Method	AAT/NAP

Start	69	End	2046
GI	7488431	Score	655
Exons	69..413, 483..791, 1593..2046		
GI Descrip.	zinc finger protein F15B8.140 - Arabidopsis thaliana gi 4678280 emb CAB41188.1 (AL049660) zinc finger-like protein [Arabidopsis thaliana]		

Seq. No.	55537	Seq. ID	OJ000313_31.0421.C13
Gene No.	116353	Strand	-
Start	2879	End	3080
Name	OJ000313_31.0421.C13.o1.tm	Method	TBLASTX:Maize
Start	692	End	1742
GI	none	Score	157
Exons	692..784, 693..794, 1587..1631, 1589..1630, 1625..1741, 1626..1742		

Seq. No.	55537	Seq. ID	OJ000313_31.0421.C13
Gene No.	116353	Strand	-
Start	2879	End	3080
Name	OJ000313_31.0421.C13.o1.ts	Method	TBLASTX:Soybean
Start	693	End	1919
GI	none	Score	115
Exons	693..794, 698..778, 1590..1631, 1595..1615, 1626..1919, 1631..1750, 1826..1861		

Seq. No.	55537	Seq. ID	OJ000313_31.0421.C13
Gene No.	116353	Strand	-
Start	2879	End	3080
Name	OJ000313_31.0421.C13.o2.gs	Method	GENSCAN
Start	2879	End	3080
GI	none	Score	.56
Exons	2879..3080		

Seq. No.	55538	Seq. ID	OJ000313_31.0421.C16
Gene No.	116354	Strand	+
Start	277	End	648
Name	OJ000313_31.0421.C16.o1.gs	Method	GENSCAN
Start	277	End	648
GI	none	Score	.49
Exons	277..648		

Seq. No.	55538	Seq. ID	OJ000313_31.0421.C16
Gene No.	116355	Strand	+
Start	3241	End	3514
Name	OJ000313_31.0421.C16.o2.np	Method	AAT/NAP
Start	3241	End	3514
GI	7340860	Score	50
Exons	3241..3514		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55538	Seq. ID	OJ000313_31.0421.C16
Gene No.	116356	Strand	-
Start	1	End	1683
Name	OJ000313_31.0421.C16.o1.np	Method	AAT/NAP
Start	1	End	1683
GI	6006367	Score	88

Exons 1..169, 1644..1683
GI Descrip. (AP000559) hypothetical protein [Oryza sativa]

Seq. No.	55539	Seq. ID	OJ000313_31.0421.C17
Gene No.	116357	Strand	+
Start	1429	End	2355
Name	OJ000313_31.0421.C17.o1.gp	Method	AAT/GAP
Start	1429	End	2355
GI	none	Score	472
Exons	1429..1552, 2232..2355		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116358	Strand	+
Start	1	End	4905
Name	OJ000313_31.0421.C18.o1.np	Method	AAT/NAP
Start	1	End	4386
GI	6633848	Score	2423
Exons	1..82, 659..1427, 1603..2074, 2157..2324, 2830..3104, 3177..3315, 3423..3908, 4004..4386		
GI Descrip.	(AC008047) F2K11.18 [Arabidopsis thaliana]		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116358	Strand	+
Start	1	End	4905
Name	OJ000313_31.0421.C18.o1.gp	Method	AAT/GAP
Start	242	End	791
GI	none	Score	198
Exons	242..261, 680..791		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116358	Strand	+
Start	1	End	4905
Name	OJ000313_31.0421.C18.o2.gs	Method	GENSCAN
Start	1649	End	4905
GI	none	Score	.61
Exons	1649..2074, 2157..2324, 2830..3084, 3193..3315, 3423..3908, 4004..4423, 4840..4905		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116358	Strand	+
Start	1	End	4905
Name	OJ000313_31.0421.C18.o2.gp	Method	AAT/GAP
Start	2243	End	3516
GI	uC-osrocyp007e10b1	Score	1032
Exons	2243..2324, 2830..3084, 3193..3315, 3423..3516		
GI Descrip.	'4760370/gb AAD29109.1 AF082565_1 2.0e-53 (AF082565) ATP dependent copper transporter [Arabidopsis thaliana] >gi_4760380_gb_AAD29115.1_ (AF091112) ATP dependent copper transporter [Arabidopsis thaliana]'		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116358	Strand	+
Start	1	End	4905
Name	OJ000313_31.0421.C18.o3.gp	Method	AAT/GAP
Start	4078	End	4682
GI	16664_1.R1084	Score	1159
Exons	4078..4682		

GI Descrip. '2660670.6.0e-29 (AC002342) putative Cu2+-transporting ATPase
[Arabidopsis thaliana]'

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116359	Strand	+
Start	5355	End	8082
Name	OJ000313_31.0421.C18.o4.gp	Method	AAT/GAP
Start	5342	End	5839
GI	uC-osflM202035c05b1	Score	972
Exons	5342..5839		
GI Descrip.	'4826572/emb CAB42886.1 3.0e-12 (AJ238848) polygalacturonase [Phleum pratense]'		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116359	Strand	+
Start	5355	End	8082
Name	OJ000313_31.0421.C18.o3.gs	Method	GENSCAN
Start	5355	End	7749
GI	none	Score	.98
Exons	5355..5957, 6504..6811, 7311..7749		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116359	Strand	+
Start	5355	End	8082
Name	OJ000313_31.0421.C18.o2.np	Method	AAT/NAP
Start	5403	End	7746
GI	548493	Score	1113
Exons	5403..5510, 5586..5957, 6504..6811, 7311..7746		
GI Descrip.	EXOPOLYGALACTURONASE PRECURSOR (EXOPG) (PECTINASE) (GALACTURAN 1,4-ALPHA-GALACTURONIDASE) gi 629854 pir S30067 polygalacturonase - maize gi 288612 emb CAA47052 (X66422) polygalacturonase [Zea mays]		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116359	Strand	+
Start	5355	End	8082
Name	OJ000313_31.0421.C18.o5.gp	Method	AAT/GAP
Start	7371	End	8082
GI	30310_1.R1084	Score	1354
Exons	7371..8082		
GI Descrip.	'548493/sp P35339 PGLT_MAIZE 9.0e-35 EXOPOLYGALACTURONASE PRECURSOR (EXOPG) (PECTINASE) (GALACTURAN 1,4-ALPHA-GALACTURONIDASE) >gi_629854_pir_S30067 polygalacturonase - maize >gi_288612_emb_CAA47052_ (X66422) polygalacturonase [Zea mays]'		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o4.tc	Method	TBLASTX:Cress
Start	761	End	3255
GI	none	Score	77
Exons	761..877, 2154..2336, 2932..3099, 2955..3074, 3192..3248, 3193..3255		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-

Start	9246	End	10388
Name	OJ000313_31.0421.C18.o5.ts	Method	TBLASTX:Soybean
Start	1634	End	1834
GI	none	Score	276
Exons	1634..1834, 1636..1833		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o9.tm	Method	TBLASTX:Maize
Start	1751	End	1921
GI	none	Score	194
Exons	1751..1921, 1753..1920		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o3.tc	Method	TBLASTX:Cress
Start	1792	End	2062
GI	none	Score	261
Exons	1792..1920, 1793..2062, 1830..2045, 2002..2058		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o6.ts	Method	TBLASTX:Soybean
Start	1835	End	2053
GI	none	Score	200
Exons	1835..2053, 1850..2053		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o3.tm	Method	TBLASTX:Maize
Start	1922	End	2327
GI	none	Score	243
Exons	1922..2077, 1922..2077, 2134..2232, 2154..2327, 2157..2327		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o2.ts	Method	TBLASTX:Soybean
Start	2259	End	3482
GI	none	Score	91
Exons	2259..2345, 2829..3086, 2830..3087, 2854..3102, 3190..3318, 3192..3275, 3420..3482		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o7.tm	Method	TBLASTX:Maize
Start	2826	End	3315
GI	none	Score	277
Exons	2826..3101, 2830..3099, 2845..3102, 3192..3275, 3193..3315		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-

Start	9246	End	10388
Name	OJ000313_31.0421.C18.o5.tm	Method	TBLASTX:Maize
Start	3423	End	3666
GI	none	Score	365
Exons	3423..3665, 3428..3538, 3432..3665, 3433..3666, 3637..3666		
Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o1.ts	Method	TBLASTX:Soybean
Start	3513	End	4393
GI	none	Score	322
Exons	3513..3929, 3629..3907, 3997..4374, 4001..4393		
Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o8.tm	Method	TBLASTX:Maize
Start	3669	End	4048
GI	none	Score	203
Exons	3669..3929, 3671..3907, 4001..4048		
Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o1.tc	Method	TBLASTX:Cress
Start	3837	End	4375
GI	none	Score	60
Exons	3837..3908, 3839..3907, 3994..4188, 4001..4192, 4178..4375, 4180..4374		
Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o6.tm	Method	TBLASTX:Maize
Start	4069	End	4375
GI	none	Score	347
Exons	4069..4374, 4070..4375		
Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o4.tm	Method	TBLASTX:Maize
Start	5597	End	6598
GI	none	Score	448
Exons	5597..5755, 5598..5957, 5831..5953, 6503..6598, 6504..6596, 6506..6598		
Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o2.tc	Method	TBLASTX:Cress
Start	5637	End	7743
GI	none	Score	99
Exons	5637..5771, 5823..5954, 6504..6821, 6563..6820, 7294..7743, 7440..7628		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o1.tw	Method	TBLASTX:Wheat
Start	5685	End	6671
GI	none	Score	340
Exons	5685..5957, 5687..5755, 5831..5956, 6503..6670, 6504..6671		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o3.ts	Method	TBLASTX:Soybean
Start	5820	End	7746
GI	none	Score	92
Exons	5820..5921, 6503..6811, 6504..6815, 6905..6943, 7293..7499, 7294..7512, 7519..7746, 7527..7742, 7624..7743		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o1.tm	Method	TBLASTX:Maize
Start	6599	End	7746
GI	none	Score	287
Exons	6599..6811, 6600..6815, 7293..7742, 7294..7746, 7609..7746		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o6.gp	Method	AAT/GAP
Start	9025	End	9881
GI	35223_1.R1084	Score	1045
Exons	9025..9308, 9426..9551, 9642..9738, 9825..9881		
GI Descrip.	'4557587/ref NP_000128.1 pFAH 1.0e-38 fumarylacetoacetase >gi_119778_sp_P16930_FAAA HUMAN FUMARYLACETOACETASE (FUMARYLACETOACETATE HYDROLASE) (BETA-DIKETONASE) (FAA) >gi_106043_pir_A37926 fumarylacetoacetase (EC 3.7.1.2) - human >gi_182393 (M55150) fumarylacetoacetate hydrolase [Homo sapiens]'		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o2.tm	Method	TBLASTX:Maize
Start	9238	End	10230
GI	none	Score	96
Exons	9238..9318, 9240..9311, 9426..9539, 9426..9551, 9427..9552, 9633..9737, 9640..9738, 9642..9737, 9643..9744, 9822..9902, 9824..9892, 9989..10057, 9990..10058, 9995..10063, 10143..10226, 10153..10230, 10155..10223		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o4.gs	Method	GENSCAN
Start	9246	End	10225
GI	none	Score	.93
Exons	9246..9308, 9426..9551, 9992..10054, 10155..10225		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o3.np	Method	AAT/NAP
Start	9249	End	10388
GI	3157928	Score	404
Exons	9249..9308, 9426..9551, 9642..9716, 9992..10054, 10155..10388		
GI Descrip.	(AC002131) Similar to fumarylacetoacetate hydrolase, gb L41670 from Emericella nidulans. [Arabidopsis thaliana]		

Seq. No.	55540	Seq. ID	OJ000313_31.0421.C18
Gene No.	116360	Strand	-
Start	9246	End	10388
Name	OJ000313_31.0421.C18.o4.ts	Method	TBLASTX:Soybean
Start	9438	End	10230
GI	none	Score	133
Exons	9438..9551, 9439..9552, 9640..9738, 9642..9737, 9824..9910, 9992..10057, 9993..10058, 10153..10230, 10155..10226		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116361	Strand	+
Start	80	End	860
Name	OJ000313_31.0421.C20.o1.gs	Method	GENSCAN
Start	80	End	860
GI	none	Score	.92
Exons	80..860		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116362	Strand	+
Start	8157	End	11430
Name	OJ000313_31.0421.C20.o3.gp	Method	AAT/GAP
Start	8137	End	10601
GI	2312476	Score	730
Exons	8137..8255, 10054..10152, 10227..10328, 10409..10468, 10553..10601		
GI Descrip.	2689720 6.0e-33 (AF037168) DnaJ homologue [Arabidopsis thaliana]		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116362	Strand	+
Start	8157	End	11430
Name	OJ000313_31.0421.C20.o2.np	Method	AAT/NAP
Start	8157	End	11430
GI	2689720	Score	677
Exons	8157..8255, 10054..10152, 10227..10328, 10409..10468, 10553..10659, 10767..10849, 11025..11110, 11206..11430		
GI Descrip.	(AF037168) DnaJ homologue [Arabidopsis thaliana]		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116362	Strand	+
Start	8157	End	11430
Name	OJ000313_31.0421.C20.o3.gs	Method	GENSCAN
Start	8157	End	11421
GI	none	Score	.96
Exons	8157..8255, 10054..10152, 10227..10328, 10409..10468, 10553..10659, 10767..10849, 11025..11115, 11214..11421		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116363	Strand	+
Start	12337	End	12525
Name	OJ000313_31.0421.C20.o4.gs	Method	GENSCAN
Start	12337	End	12525
GI	none	Score	.79
Exons	12337..12525		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116364	Strand	+
Start	14015	End	15884
Name	OJ000313_31.0421.C20.o4.gp	Method	AAT/GAP
Start	13930	End	15723
GI	none	Score	920
Exons	13930..14078, 14870..14928, 15040..15132, 15238..15327, 15434..15515, 15687..15723		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116364	Strand	+
Start	14015	End	15884
Name	OJ000313_31.0421.C20.o5.gs	Method	GENSCAN
Start	14015	End	15884
GI	none	Score	.81
Exons	14015..14078, 15426..15515, 15832..15884		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116365	Strand	-
Start	456	End	1019
Name	OJ000313_31.0421.C20.o1.gp	Method	AAT/GAP
Start	456	End	1019
GI	none	Score	1090
Exons	456..1019		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116366	Strand	-
Start	2690	End	5536
Name	OJ000313_31.0421.C20.o1.tm	Method	TBLASTX:Maize
Start	121	End	871
GI	none	Score	243
Exons	121..429, 122..415, 123..431, 411..866, 413..871, 475..870	123..416, 390..866, 401..862,	

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116366	Strand	-
Start	2690	End	5536
Name	OJ000313_31.0421.C20.o3.tc	Method	TBLASTX:Cress
Start	141	End	869
GI	none	Score	73
Exons	141..206, 240..314, 289..321, 543..680, 705..869, 749..868	450..503, 455..496, 533..622,	

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116366	Strand	-
Start	2690	End	5536
Name	OJ000313_31.0421.C20.o3.ts	Method	TBLASTX:Soybean
Start	369	End	851
GI	none	Score	43

Exons 369..404, 443..508, 444..509, 513..662, 542..574, 701..847, 705..851

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116366	Strand	-
Start	2690	End	5536
Name	OJ000313_31.0421.C20.o3.tw	Method	TBLASTX:Wheat
Start	699	End	869
GI	none	Score	176
Exons	699..869, 701..859		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116366	Strand	-
Start	2690	End	5536
Name	OJ000313_31.0421.C20.o2.gp	Method	AAT/GAP
Start	2360	End	4297
GI	3279_2.R1084	Score	1930
Exons	2360..3223, 4000..4145, 4236..4297		
GI Descrip.	'2689720.6.0e-33 (AF037168) DnaJ homologue [Arabidopsis thaliana]'		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116366	Strand	-
Start	2690	End	5536
Name	OJ000313_31.0421.C20.o2.tm	Method	TBLASTX:Maize
Start	2375	End	3254
GI	none	Score	47
Exons	2375..2425, 2377..2412, 2427..2486, 2428..2487, 2483..2515, 2484..2510, 2539..2583, 2539..2583, 2642..2680, 2643..2666, 2677..2946, 2683..2922, 2684..2965, 2694..2945, 2717..2953, 3000..3212, 3001..3213, 3017..3229, 3018..3254		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116366	Strand	-
Start	2690	End	5536
Name	OJ000313_31.0421.C20.o2.tw	Method	TBLASTX:Wheat
Start	2471	End	2807
GI	none	Score	56
Exons	2471..2518, 2473..2520, 2682..2801, 2684..2806, 2692..2802, 2694..2807		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116366	Strand	-
Start	2690	End	5536
Name	OJ000313_31.0421.C20.o1.ts	Method	TBLASTX:Soybean
Start	2683	End	3211
GI	none	Score	93
Exons	2683..2850, 2688..2897, 2690..2926, 2694..2885, 2720..2896, 3000..3164, 3014..3181, 3033..3182, 3179..3211		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116366	Strand	-
Start	2690	End	5536
Name	OJ000313_31.0421.C20.o2.gs	Method	GENSCAN
Start	2690	End	5536
GI	none	Score	.45
Exons	2690..3249, 4205..4365, 5469..5536		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116366	Strand	-
Start	2690	End	5536
Name	OJ000313_31.0421.C20.o2.tc	Method	TBLASTX:Cress
Start	2690	End	3184
GI	none	Score	112
Exons	2690..2965, 2709..2876, 3047..3184		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116366	Strand	-
Start	2690	End	5536
Name	OJ000313_31.0421.C20.o1.np	Method	AAT/NAP
Start	2693	End	3211
GI	5031281	Score	561
Exons	2693..3211		
GI Descrip.	(AF139499) unknown [Prunus armeniaca]		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116366	Strand	-
Start	2690	End	5536
Name	OJ000313_31.0421.C20.o1.tw	Method	TBLASTX:Wheat
Start	2822	End	3221
GI	none	Score	103
Exons	2822..2887, 2823..2885, 2894..2953, 2896..2922, 2997..3209, 3001..3210, 3008..3214, 3012..3221		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116367	Strand	-
Start	10032	End	11431
Name	OJ000313_31.0421.C20.o3.tm	Method	TBLASTX:Maize
Start	10032	End	10464
GI	none	Score	177
Exons	10032..10154, 10048..10152, 10224..10328, 10226..10330, 10226..10327, 10406..10462, 10410..10463, 10410..10463, 10411..10464		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116367	Strand	-
Start	10032	End	11431
Name	OJ000313_31.0421.C20.o1.tc	Method	TBLASTX:Cress
Start	10045	End	11118
GI	none	Score	133
Exons	10045..10152, 10056..10139, 10224..10325, 10226..10333, 10418..10474, 10550..10660, 10552..10659, 10701..10850, 10702..10854, 10993..11118, 11024..11116		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116367	Strand	-
Start	10032	End	11431
Name	OJ000313_31.0421.C20.o2.ts	Method	TBLASTX:Soybean
Start	10045	End	10629
GI	none	Score	163
Exons	10045..10152, 10056..10154, 10063..10158, 10224..10325, 10226..10348, 10412..10474, 10504..10629, 10550..10627		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
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Gene No.	116367	Strand	
Start	10032	End	11431
Name	OJ000313_31.0421.C20.o4.tm	Method	TBLASTX:Maize
Start	10780	End	11431
GI	none	Score	82
Exons	10780..10854, 10780..10851, 11020..11115, 11024..11116, 11206..11334, 11242..11340, 11244..11342, 11247..11342, 11340..11423, 11342..11431, 11342..11431		

Seq. No.	55541	Seq. ID	OJ000313_31.0421.C20
Gene No.	116368	Strand	
Start	14014	End	15736
Name	OJ000313_31.0421.C20.o4.ts	Method	TBLASTX:Soybean
Start	14014	End	15736
GI	none	Score	79
Exons	14014..14079, 14868..14927, 14869..14928, 14869..14928, 15023..15130, 15034..15132, 15036..15131, 15037..15132, 15228..15311, 15237..15314, 15418..15519, 15473..15517, 15685..15735, 15686..15736		

Seq. No.	55542	Seq. ID	OJ000313_31.0421.C22
Gene No.	116369	Strand	+
Start	1	End	1997
Name	OJ000313_31.0421.C22.o1.np	Method	AAT/NAP
Start	1	End	1151
GI	6729532	Score	179
Exons	1..92, 396..518, 1001..1151		
GI Descrip.	(AL132977) putative protein [Arabidopsis thaliana]		

Seq. No.	55542	Seq. ID	OJ000313_31.0421.C22
Gene No.	116369	Strand	+
Start	1	End	1997
Name	OJ000313_31.0421.C22.o1.gp	Method	AAT/GAP
Start	36	End	1997
GI	uC-osflcyp169f05b1	Score	446
Exons	36..83, 426..518, 1001..1162, 1951..1997		
GI Descrip.	'287938/emb X54204 CVPRSET5C 6.0e-47 Cloning vector pRSET5c (pBluescript KS plus derivative)'		

Seq. No.	55543	Seq. ID	OJ000313_31.0421.C23
Gene No.	116370	Strand	+
Start	11	End	2076
Name	OJ000313_31.0421.C23.o1.gs	Method	GENSCAN
Start	11	End	2076
GI	none	Score	.7
Exons	11..178, 510..636, 2000..2076		

Seq. No.	55543	Seq. ID	OJ000313_31.0421.C23
Gene No.	116370	Strand	+
Start	11	End	2076
Name	OJ000313_31.0421.C23.o1.gp	Method	AAT/GAP
Start	510	End	785
GI	uC-osflcyp169f05b1	Score	484
Exons	510..785		
GI Descrip.	'287938/emb X54204 CVPRSET5C 6.0e-47 Cloning vector pRSET5c (pBluescript KS plus derivative)'		

Seq. No.	55544	Seq. ID	OJ000323_30.0420.C2
Gene No.	116371	Strand	+
Start	112	End	563
Name	OJ000323_30.0420.C2.o1.gs	Method	GENSCAN
Start	112	End	563
GI	none	Score	.85
Exons	112..220, 451..563		

Seq. No.	55544	Seq. ID	OJ000323_30.0420.C2
Gene No.	116372	Strand	-
Start	1	End	1158
Name	OJ000323_30.0420.C2.o1.np	Method	AAT/NAP
Start	1	End	1158
GI	6175185	Score	47
Exons	1..59, 464..640, 1117..1158		
GI Descrip.	(AC011437) ankyrin-like protein [Arabidopsis thaliana]		

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116373	Strand	+
Start	2149	End	16336
Name	OJ000323_30.0420.C4.o1.gs	Method	GENSCAN
Start	2149	End	16336
GI	none	Score	.73
Exons	2149..2230, 2545..2636, 2687..2956, 3019..3142, 3154..3284, 3641..3735, 3865..4009, 4139..4213, 4342..4420, 4838..4913, 5321..5902, 6857..7053, 7955..8076, 8729..8760, 8813..8985, 9138..9800, 10222..10301, 10658..10840, 10926..11308, 11356..12388, 12539..12690, 13561..13855, 14356..14838, 14957..15090, 15221..15710, 15770..16336		

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116373	Strand	+
Start	2149	End	16336
Name	OJ000323_30.0420.C4.o1.np	Method	AAT/NAP
Start	8847	End	16333
GI	7228457	Score	4642
Exons	8847..9294, 9374..9853, 10658..12145, 12569..13864, 14206..14718, 14785..16333		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116374	Strand	-
Start	16988	End	23281
Name	OJ000323_30.0420.C4.o2.gs	Method	GENSCAN
Start	16988	End	20298
GI	none	Score	.79
Exons	16988..17212, 17255..17707, 17744..17992, 18095..18499, 18683..18839, 18910..19109, 19186..20076, 20161..20298		

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116374	Strand	-
Start	16988	End	23281
Name	OJ000323_30.0420.C4.o2.np	Method	AAT/NAP
Start	17006	End	23281
GI	7228456	Score	1730

Exons 17006..17908, 18011..19041, 19201..19470, 19510..20325,
23122..23281
GI Descrip. (AP001366) hypothetical protein [Oryza sativa]

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116374	Strand	-
Start	16988	End	23281
Name	OJ000323_30.0420.C4.o3.gs	Method	GENSCAN
Start	21918	End	23272
GI	none	Score	.43
Exons	21918..22230, 23130..23272		

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116375	Strand	-
Start	23531	End	25787
Name	OJ000323_30.0420.C4.o4.gs	Method	GENSCAN
Start	23531	End	25663
GI	none	Score	.66
Exons	23531..23756, 24036..24182, 24300..24436, 24550..24586, 25584..25663		

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116375	Strand	-
Start	23531	End	25787
Name	OJ000323_30.0420.C4.o3.np	Method	AAT/NAP
Start	23714	End	25787
GI	476420	Score	55
Exons	23714..23827, 23864..23939, 24008..24231, 25518..25787		
GI Descrip.	collagen alpha 1(I) chain - bovine (fragments)		

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116376	Strand	-
Start	27362	End	28445
Name	OJ000323_30.0420.C4.o6.tw	Method	TBLASTX:Wheat
Start	9575	End	9838
GI	none	Score	91
Exons	9575..9682, 9592..9672, 9652..9795, 9656..9838		

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116376	Strand	-
Start	27362	End	28445
Name	OJ000323_30.0420.C4.o1.tw	Method	TBLASTX:Wheat
Start	11443	End	11929
GI	none	Score	372
Exons	11443..11616, 11444..11929, 11644..11898		

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116376	Strand	-
Start	27362	End	28445
Name	OJ000323_30.0420.C4.o4.tw	Method	TBLASTX:Wheat
Start	12050	End	12340
GI	none	Score	97
Exons	12050..12145, 12055..12144, 12136..12339, 12137..12340, 12158..12340		

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116376	Strand	-

Start	27362	End	28445
Name	OJ000323_30.0420.C4.o2.tm	Method	TBLASTX:Maize
Start	12137	End	12340
GI	none	Score	199
Exons	12137..12340, 12166..12339		

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116376	Strand	-
Start	27362	End	28445
Name	OJ000323_30.0420.C4.o5.tw	Method	TBLASTX:Wheat
Start	14391	End	14850
GI	none	Score	133
Exons	14391..14486, 14392..14487, 14563..14850, 14565..14651, 14679..14738		

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116376	Strand	-
Start	27362	End	28445
Name	OJ000323_30.0420.C4.o1.tm	Method	TBLASTX:Maize
Start	15213	End	15556
GI	none	Score	331
Exons	15213..15527, 15317..15517, 15324..15536, 15509..15556		

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116376	Strand	-
Start	27362	End	28445
Name	OJ000323_30.0420.C4.o2.tw	Method	TBLASTX:Wheat
Start	15341	End	15727
GI	none	Score	368
Exons	15341..15418, 15342..15710, 15443..15685, 15476..15727		

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116376	Strand	-
Start	27362	End	28445
Name	OJ000323_30.0420.C4.o3.tw	Method	TBLASTX:Wheat
Start	15728	End	16324
GI	none	Score	239
Exons	15728..16018, 15730..15825, 15895..16005, 16088..16168, 16198..16320, 16199..16324		

Seq. No.	55545	Seq. ID	OJ000323_30.0420.C4
Gene No.	116376	Strand	-
Start	27362	End	28445
Name	OJ000323_30.0420.C4.o5.gs	Method	GENSCAN
Start	27362	End	28445
GI	none	Score	.59
Exons	27362..27499, 27575..27692, 28223..28340, 28402..28445		

Seq. No.	55546	Seq. ID	OJ000323_30.0420.C5
Gene No.	116377	Strand	+
Start	1	End	1246
Name	OJ000323_30.0420.C5.o1.np	Method	AAT/NAP
Start	1	End	1246
GI	6063557	Score	216
Exons	1..39, 111..261, 457..613, 1221..1246		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	55546	Seq. ID	OJ000323_30.0420.C5
Gene No.	116378	Strand	-
Start	776	End	877
Name	OJ000323_30.0420.C5.o1.gs	Method	GENSCAN
Start	776	End	877
GI	none	Score	.88
Exons	776..877		

Seq. No.	55547	Seq. ID	OJ000323_30.0420.C7
Gene No.	116379	Strand	-
Start	1	End	5236
Name	OJ000323_30.0420.C7.o1.np	Method	AAT/NAP
Start	1	End	4060
GI	6175185	Score	186
Exons	1..25, 388..469, 551..683, 817..903, 1141..1280, 2531..2659, 3697..3866, 3963..4060		

GI Descrip. (AC011437) ankyrin-like protein [Arabidopsis thaliana]

Seq. No.	55547	Seq. ID	OJ000323_30.0420.C7
Gene No.	116379	Strand	-
Start	1	End	5236
Name	OJ000323_30.0420.C7.o1.gs	Method	GENSCAN
Start	290	End	3877
GI	none	Score	.83
Exons	290..387, 555..683, 817..903, 1141..1280, 2531..2659, 3697..3877		

Seq. No.	55547	Seq. ID	OJ000323_30.0420.C7
Gene No.	116379	Strand	-
Start	1	End	5236
Name	OJ000323_30.0420.C7.o2.np	Method	AAT/NAP
Start	3420	End	5236
GI	6721512	Score	91
Exons	3420..3533, 4876..4902, 4945..5236		

GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116380	Strand	+
Start	555	End	1790
Name	OJ000323_30.0420.C9.o1.gs	Method	GENSCAN
Start	555	End	1790
GI	none	Score	.61
Exons	555..625, 1101..1219, 1709..1790		

Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116381	Strand	+
Start	5094	End	13855
Name	OJ000323_30.0420.C9.o3.gs	Method	GENSCAN
Start	5094	End	10133
GI	none	Score	.46
Exons	5094..5163, 5190..5304, 5575..5685, 5765..5865, 6639..6731, 7127..7174, 7438..7632, 7877..8451, 8476..8884, 9037..10133		

Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116381	Strand	+
Start	5094	End	13855
Name	OJ000323_30.0420.C9.o1.np	Method	AAT/NAP
Start	7708	End	13855

GI 7228457 Score 9446
 Exons 7708..8074, 8136..10070, 10134..10967, 11090..12241, 12308..13855
 GI Descrip. (AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]

Seq. No. 55548 Seq. ID OJ000323_30.0420.C9
 Gene No. 116382 Strand +
 Start 19009 End 20207
 Name OJ000323_30.0420.C9.o7.gs Method GENSCAN
 Start 19009 End 20207
 GI none Score .52
 Exons 19009..19065, 19302..19491, 20119..20207

Seq. No. 55548 Seq. ID OJ000323_30.0420.C9
 Gene No. 116383 Strand -
 Start 2048 End 2558
 Name OJ000323_30.0420.C9.o2.gs Method GENSCAN
 Start 2048 End 2558
 GI none Score .68
 Exons 2048..2259, 2306..2558

Seq. No. 55548 Seq. ID OJ000323_30.0420.C9
 Gene No. 116384 Strand -
 Start 14487 End 19775
 Name OJ000323_30.0420.C9.o5.gs Method GENSCAN
 Start 14487 End 16136
 GI none Score 1
 Exons 14487..16136

Seq. No. 55548 Seq. ID OJ000323_30.0420.C9
 Gene No. 116384 Strand -
 Start 14487 End 19775
 Name OJ000323_30.0420.C9.o2.np Method AAT/NAP
 Start 14490 End 17830
 GI 5803259 Score 4998
 Exons 14490..16159, 16244..16473, 16569..17830
 GI Descrip. (AP000399) hypothetical protein [Oryza sativa]

Seq. No. 55548 Seq. ID OJ000323_30.0420.C9
 Gene No. 116384 Strand -
 Start 14487 End 19775
 Name OJ000323_30.0420.C9.o6.gs Method GENSCAN
 Start 16332 End 17830
 GI none Score 1
 Exons 16332..16473, 16569..17830

Seq. No. 55548 Seq. ID OJ000323_30.0420.C9
 Gene No. 116384 Strand -
 Start 14487 End 19775
 Name OJ000323_30.0420.C9.o4.np Method AAT/NAP
 Start 16727 End 19775
 GI 7485321 Score 162
 Exons 16727..16775, 17545..17634, 19565..19775
 GI Descrip. hypothetical protein F10M10.200 - Arabidopsis thaliana gi|4455188|emb|CAB36720.1| (AL035521) putative protein

[Arabidopsis thaliana] gi|7270393|emb|CAB80160.1| (AL161585)
putative protein [Arabidopsis thaliana]

Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116384	Strand	-
Start	14487	End	19775
Name	OJ000323_30.0420.C9.o3.np	Method	AAT/NAP
Start	18647	End	19524
GI	5922623	Score	206
Exons	18647..18722, 18890..19044, 19440..19524		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783
Name	OJ000323_30.0420.C9.o6.tw	Method	TBLASTX:Wheat
Start	8416	End	8754
GI	none	Score	112
Exons	8416..8514, 8421..8513, 8481..8720, 8497..8754		

Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783
Name	OJ000323_30.0420.C9.o2.tw	Method	TBLASTX:Wheat
Start	9491	End	9950
GI	none	Score	403
Exons	9491..9628, 9492..9950, 9686..9946		

Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783
Name	OJ000323_30.0420.C9.o1.tw	Method	TBLASTX:Wheat
Start	10142	End	10604
GI	none	Score	587
Exons	10142..10597, 10143..10604, 10143..10598		

Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783
Name	OJ000323_30.0420.C9.o3.ts	Method	TBLASTX:Soybean
Start	10182	End	10547
GI	none	Score	117
Exons	10182..10406, 10413..10547		

Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783
Name	OJ000323_30.0420.C9.o1.tm	Method	TBLASTX:Maize
Start	10272	End	10628
GI	none	Score	392
Exons	10272..10628, 10307..10618, 10323..10628		

Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783

Name	OJ000323_30.0420.C9.o5.tw	Method	TBLASTX:Wheat
Start	10605	End	10916
GI	none	Score	324
Exons	10605..10916, 10613..10903		
Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783
Name	OJ000323_30.0420.C9.o2.tm	Method	TBLASTX:Maize
Start	10655	End	11038
GI	none	Score	272
Exons	10655..10939, 10656..10940, 10928..11038		
Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783
Name	OJ000323_30.0420.C9.o1.ts	Method	TBLASTX:Soybean
Start	10791	End	11161
GI	none	Score	136
Exons	10791..10934, 10931..11161		
Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783
Name	OJ000323_30.0420.C9.o8.tw	Method	TBLASTX:Wheat
Start	10925	End	11212
GI	none	Score	240
Exons	10925..11212		
Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783
Name	OJ000323_30.0420.C9.o4.tw	Method	TBLASTX:Wheat
Start	11658	End	12220
GI	none	Score	235
Exons	11658..11678, 11786..12010, 11801..12010, 11851..12036, 12071..12220, 12080..12217, 12082..12219		
Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783
Name	OJ000323_30.0420.C9.o2.ts	Method	TBLASTX:Soybean
Start	11909	End	12475
GI	5666795	Score	69
Exons	11909..12007, 12083..12220, 12275..12475		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		
Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783
Name	OJ000323_30.0420.C9.o9.tw	Method	TBLASTX:Wheat
Start	12223	End	12535
GI	none	Score	189
Exons	12223..12399, 12275..12535		
Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-

Start	20377	End	20783
Name	OJ000323_30.0420.C9.o3.tm	Method	TBLASTX:Maize
Start	12728	End	13048
GI	none	Score	46
Exons	12728..12778, 12784..13035, 12785..13048		

Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783
Name	OJ000323_30.0420.C9.o3.tw	Method	TBLASTX:Wheat
Start	12862	End	13243
GI	none	Score	365
Exons	12862..12918, 12863..13243, 12964..13107		

Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783
Name	OJ000323_30.0420.C9.o7.tw	Method	TBLASTX:Wheat
Start	13244	End	13846
GI	none	Score	265
Exons	13244..13528, 13244..13660, 13384..13554, 13720..13842, 13721..13846		

Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783
Name	OJ000323_30.0420.C9.o5.np	Method	AAT/NAP
Start	20377	End	20773
GI	4585985	Score	178
Exons	20377..20460, 20536..20773		
GI Descrip.	(AC005287) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55548	Seq. ID	OJ000323_30.0420.C9
Gene No.	116385	Strand	-
Start	20377	End	20783
Name	OJ000323_30.0420.C9.o4.tm	Method	TBLASTX:Maize
Start	20653	End	20783
GI	none	Score	72
Exons	20653..20772, 20656..20775, 20657..20779, 20697..20783		

Seq. No.	55549	Seq. ID	OJ000323_30.0420.C10
Gene No.	116386	Strand	+
Start	9	End	2197
Name	OJ000323_30.0420.C10.o1.gs	Method	GENSCAN
Start	9	End	2197
GI	none	Score	.74
Exons	9..186, 2175..2197		

Seq. No.	55549	Seq. ID	OJ000323_30.0420.C10
Gene No.	116387	Strand	+
Start	2984	End	3229
Name	OJ000323_30.0420.C10.o2.gs	Method	GENSCAN
Start	2984	End	3229
GI	none	Score	.83
Exons	2984..3229		

Seq. No.	55550	Seq. ID	OJ000323_30.0420.C13
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Gene No.	116388	Strand	+
Start	915	End	2277
Name	OJ000323_30.0420.C13.o1.gs	Method	GENSCAN
Start	915	End	2277
GI	none	Score	.84
Exons	915..996, 1773..1934, 2093..2277		

Seq. No.	55550	Seq. ID	OJ000323_30.0420.C13
Gene No.	116389	Strand	+
Start	5923	End	6451
Name	OJ000323_30.0420.C13.o2.gp	Method	AAT/GAP
Start	5923	End	6451
GI	LIB3475-007-P1-K1-E8	Score	700
Exons	5923..6315, 6405..6451		
GI Descrip.	'4512233/dbj AB014743.1 AB014743 1.0e-176 Oryza sativa copia-type retrotransposon RIRE7 DNA, partial sequence'		

Seq. No.	55550	Seq. ID	OJ000323_30.0420.C13
Gene No.	116390	Strand	-
Start	1451	End	2352
Name	OJ000323_30.0420.C13.o1.np	Method	AAT/NAP
Start	1451	End	2352
GI	5852178	Score	512
Exons	1451..1553, 1916..2012, 2044..2352		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	55550	Seq. ID	OJ000323_30.0420.C13
Gene No.	116391	Strand	-
Start	3280	End	9691
Name	OJ000323_30.0420.C13.o2.gs	Method	GENSCAN
Start	3280	End	9691
GI	none	Score	.72
Exons	3280..3461, 3473..3688, 4458..4638, 6597..7118, 9600..9691		

Seq. No.	55550	Seq. ID	OJ000323_30.0420.C13
Gene No.	116391	Strand	-
Start	3280	End	9691
Name	OJ000323_30.0420.C13.o1.gp	Method	AAT/GAP
Start	5159	End	5419
GI	3763145	Score	349
Exons	5159..5419		
GI Descrip.	416325/gb U03454 PRS423 2.0e-15 Yeast episomal vector pRS423 with HIS3 marker, complete sequence		

Seq. No.	55551	Seq. ID	OJ000323_33.0420.C1
Gene No.	116392	Strand	+
Start	74	End	920
Name	OJ000323_33.0420.C1.o1.gs	Method	GENSCAN
Start	74	End	920
GI	none	Score	.95
Exons	74..475, 654..920		

Seq. No.	55552	Seq. ID	OJ000323_33.0420.C6
Gene No.	116393	Strand	+
Start	744	End	1219
Name	OJ000323_33.0420.C6.o1.np	Method	AAT/NAP
Start	744	End	1219

GI	5295948	Score	67
Exons	744..1021, 1065..1219		
GI Descrip.	(AB026295) hypothetical protein [Oryza sativa]		

Seq. No.	55552	Seq. ID	OJ000323_33.0420.C6
Gene No.	116393	Strand	+
Start	744	End	1219
Name	OJ000323_33.0420.C6.o1.gs	Method	GENSCAN
Start	824	End	1208
GI	none	Score	.6
Exons	824..1208		

Seq. No.	55553	Seq. ID	OJ000323_33.0420.C10
Gene No.	116394	Strand	+
Start	407	End	2649
Name	OJ000323_33.0420.C10.o1.gs	Method	GENSCAN
Start	407	End	2649
GI	none	Score	.9
Exons	407..448, 1122..1284, 1317..1510, 1512..1615, 1666..1822, 2317..2649		

Seq. No.	55553	Seq. ID	OJ000323_33.0420.C10
Gene No.	116395	Strand	-
Start	558	End	846
Name	OJ000323_33.0420.C10.o1.gp	Method	AAT/GAP
Start	558	End	846
GI	426253	Score	522
Exons	558..846		

Seq. No.	55554	Seq. ID	OJ000323_33.0420.C11
Gene No.	116396	Strand	-
Start	53	End	301
Name	OJ000323_33.0420.C11.o1.gs	Method	GENSCAN
Start	53	End	301
GI	none	Score	.77
Exons	53..301		

Seq. No.	55554	Seq. ID	OJ000323_33.0420.C11
Gene No.	116397	Strand	-
Start	679	End	904
Name	OJ000323_33.0420.C11.o2.gs	Method	GENSCAN
Start	679	End	904
GI	none	Score	.52
Exons	679..904		

Seq. No.	55555	Seq. ID	OJ000323_33.0420.C12
Gene No.	116398	Strand	+
Start	5246	End	5398
Name	OJ000323_33.0420.C12.o1.gp	Method	AAT/GAP
Start	5246	End	5398
GI	7406_1.R1084	Score	193
Exons	5246..5398		
GI Descrip.	'1122315/emb CAA63901 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	55555	Seq. ID	OJ000323_33.0420.C12
Gene No.	116399	Strand	+

Start	5847	End	6325
Name	OJ000323_33.0420.C12.o3.np	Method	AAT/NAP
Start	5847	End	6325
GI	7228442	Score	783
Exons	5847..6325		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	55555	Seq. ID	OJ000323_33.0420.C12
Gene No.	116400	Strand	-
Start	1	End	6325
Name	OJ000323_33.0420.C12.o1.np	Method	AAT/NAP
Start	1	End	1740
GI	7340909	Score	94
Exons	1..66, 295..446, 1673..1740		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	55555	Seq. ID	OJ000323_33.0420.C12
Gene No.	116400	Strand	-
Start	1	End	6325
Name	OJ000323_33.0420.C12.o2.np	Method	AAT/NAP
Start	1	End	6325
GI	6751696	Score	170
Exons	1..21, 3049..3482, 3754..3855, 4870..5030, 6283..6325		
GI Descrip.	(AC018908) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55555	Seq. ID	OJ000323_33.0420.C12
Gene No.	116400	Strand	-
Start	1	End	6325
Name	OJ000323_33.0420.C12.o1.gs	Method	GENSCAN
Start	1902	End	5378
GI	none	Score	.6
Exons	1902..2640, 2646..2942, 3261..3711, 3756..4046, 5186..5378		

Seq. No.	55556	Seq. ID	OJ000323_33.0420.C13
Gene No.	116401	Strand	+
Start	5418	End	8622
Name	OJ000323_33.0420.C13.o2.np	Method	AAT/NAP
Start	5282	End	6225
GI	100210	Score	206
Exons	5282..6225		
GI Descrip.	extensin precursor (clone Tom L-4) - tomato gi 170444 (M76671) extensin (class II) [Lycopersicon esculentum]		

Seq. No.	55556	Seq. ID	OJ000323_33.0420.C13
Gene No.	116401	Strand	+
Start	5418	End	8622
Name	OJ000323_33.0420.C13.o2.gs	Method	GENSCAN
Start	5418	End	8622
GI	none	Score	.68
Exons	5418..5553, 5922..6045, 6136..6219, 6829..6914, 8474..8622		

Seq. No.	55556	Seq. ID	OJ000323_33.0420.C13
Gene No.	116401	Strand	+
Start	5418	End	8622
Name	OJ000323_33.0420.C13.o4.np	Method	AAT/NAP

Start	7449	End	7559
GI	6721561	Score	89
Exons	7449..7559		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1 (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55556	Seq. ID	OJ000323_33.0420.C13
Gene No.	116401	Strand	+
Start	5418	End	8622
Name	OJ000323_33.0420.C13.o1.gp	Method	AAT/GAP
Start	8049	End	8157
GI	uC-osflcyp088b12b1	Score	147
Exons	8049..8157		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	55556	Seq. ID	OJ000323_33.0420.C13
Gene No.	116402	Strand	-
Start	1805	End	4976
Name	OJ000323_33.0420.C13.o1.gs	Method	GENSCAN
Start	1805	End	4976
GI	none	Score	.64
Exons	1805..1921, 2240..2396, 2442..2623, 2644..3104, 3433..3471, 3473..4976		

Seq. No.	55556	Seq. ID	OJ000323_33.0420.C13
Gene No.	116402	Strand	-
Start	1805	End	4976
Name	OJ000323_33.0420.C13.o1.np	Method	AAT/NAP
Start	3441	End	4938
GI	6983860	Score	2542
Exons	3441..4938		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	55556	Seq. ID	OJ000323_33.0420.C13
Gene No.	116403	Strand	-
Start	7327	End	10258
Name	OJ000323_33.0420.C13.o3.tw	Method	TBLASTX:Wheat
Start	3486	End	3819
GI	none	Score	113
Exons	3486..3818, 3538..3819		

Seq. No.	55556	Seq. ID	OJ000323_33.0420.C13
Gene No.	116403	Strand	-
Start	7327	End	10258
Name	OJ000323_33.0420.C13.o1.tm	Method	TBLASTX:Maize
Start	3681	End	4275
GI	none	Score	103
Exons	3681..4058, 3682..3879, 3702..3947, 3934..4059, 4051..4116, 4068..4115, 4113..4274, 4120..4275		

Seq. No.	55556	Seq. ID	OJ000323_33.0420.C13
Gene No.	116403	Strand	-

Start	7327	End	10258
Name	OJ000323_33.0420.C13.o1.tw	Method	TBLASTX:Wheat
Start	3819	End	4454
GI	none	Score	44
Exons	3819..4058, 3820..3879, 3937..4074, 4051..4395, 4061..4321, 4062..4451, 4068..4454		

Seq. No.	55556	Seq. ID	OJ000323_33.0420.C13
Gene No.	116403	Strand	-
Start	7327	End	10258
Name	OJ000323_33.0420.C13.o2.tm	Method	TBLASTX:Maize
Start	4323	End	4614
GI	none	Score	168
Exons	4323..4613, 4326..4613, 4327..4614		

Seq. No.	55556	Seq. ID	OJ000323_33.0420.C13
Gene No.	116403	Strand	-
Start	7327	End	10258
Name	OJ000323_33.0420.C13.o1.ts	Method	TBLASTX:Soybean
Start	4413	End	4673
GI	none	Score	120
Exons	4413..4661, 4413..4673, 4414..4662		

Seq. No.	55556	Seq. ID	OJ000323_33.0420.C13
Gene No.	116403	Strand	-
Start	7327	End	10258
Name	OJ000323_33.0420.C13.o1.tc	Method	TBLASTX:Cress
Start	4437	End	4763
GI	none	Score	87
Exons	4437..4580, 4438..4578, 4581..4763		

Seq. No.	55556	Seq. ID	OJ000323_33.0420.C13
Gene No.	116403	Strand	-
Start	7327	End	10258
Name	OJ000323_33.0420.C13.o2.tw	Method	TBLASTX:Wheat
Start	4461	End	4937
GI	none	Score	304
Exons	4461..4937, 4465..4818		

Seq. No.	55556	Seq. ID	OJ000323_33.0420.C13
Gene No.	116403	Strand	-
Start	7327	End	10258
Name	OJ000323_33.0420.C13.o3.np	Method	AAT/NAP
Start	7327	End	10258
GI	4680183	Score	133
Exons	7327..7416, 10226..10258		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	55557	Seq. ID	OJ000323_33.0420.C17
Gene No.	116404	Strand	-
Start	1	End	1560
Name	OJ000323_33.0420.C17.o1.np	Method	AAT/NAP
Start	1	End	1560
GI	6815097	Score	1322
Exons	1..1336, 1451..1560		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	55557	Seq. ID	OJ000323_33.0420.C17
Gene No.	116404	Strand	-
Start	1	End	1560
Name	OJ000323_33.0420.C17.ol.gs	Method	GENSCAN
Start	48	End	1454
GI	none	Score	.55
Exons	48..296, 695..1454		

Seq. No.	55558	Seq. ID	OJ000323_33.0420.C18
Gene No.	116405	Strand	+
Start	2914	End	4982
Name	OJ000323_33.0420.C18.o2.np	Method	AAT/NAP
Start	2914	End	4982
GI	7485859	Score	748
Exons	2914..3128, 3243..3632, 3941..4982		
GI Descrip.	hypothetical protein F20D10.300 - Arabidopsis thaliana gi 4467124 emb CAB37558.1 (AL035538) hypothetical protein [Arabidopsis thaliana] gi 7270802 emb CAB80483.1 (AL161593) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55558	Seq. ID	OJ000323_33.0420.C18
Gene No.	116406	Strand	-
Start	1	End	1725
Name	OJ000323_33.0420.C18.ol.hp	Method	AAT/NAP
Start	1	End	1725
GI	6815097	Score	362
Exons	1..61, 119..879, 1653..1725		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	55558	Seq. ID	OJ000323_33.0420.C18
Gene No.	116407	Strand	
Start	3228	End	3965
Name	OJ000323_33.0420.C18.ol.tc	Method	TBLASTX:Cress
Start	3228	End	3965
GI	none	Score	137
Exons	3228..3458, 3239..3400, 3441..3569, 3464..3553, 3593..3724, 3594..3725, 3825..3965		

Seq. No.	55558	Seq. ID	OJ000323_33.0420.C18
Gene No.	116408	Strand	
Start	4176	End	4913
Name	OJ000323_33.0420.C18.ol.ts	Method	TBLASTX:Soybean
Start	4176	End	4913
GI	none	Score	89
Exons	4176..4262, 4220..4408, 4224..4409, 4251..4520, 4551..4727, 4598..4726, 4791..4913		

Seq. No.	55558	Seq. ID	OJ000323_33.0420.C18
Gene No.	116408	Strand	
Start	4176	End	4913
Name	OJ000323_33.0420.C18.ol.tm	Method	TBLASTX:Maize
Start	4220	End	4856
GI	none	Score	183
Exons	4220..4468, 4248..4529, 4539..4856		

Seq. No.	55559	Seq. ID	OJ000323_33.0420.C22
Gene No.	116409	Strand	+
Start	1	End	861
Name	OJ000323_33.0420.C22.o1.np	Method	AAT/NAP
Start	1	End	861
GI	6742729	Score	636
Exons	1..861		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	55559	Seq. ID	OJ000323_33.0420.C22
Gene No.	116409	Strand	+
Start	1	End	861
Name	OJ000323_33.0420.C22.o1.gs	Method	GENSCAN
Start	49	End	843
GI	none	Score	.69
Exons	49..843		

Seq. No.	55559	Seq. ID	OJ000323_33.0420.C22
Gene No.	116409	Strand	+
Start	1	End	861
Name	OJ000323_33.0420.C22.o1.tm	Method	TBLASTX:Maize
Start	318	End	701
GI	none	Score	63
Exons	318..386, 386..700, 387..701		

Seq. No.	55559	Seq. ID	OJ000323_33.0420.C22
Gene No.	116409	Strand	+
Start	1	End	861
Name	OJ000323_33.0420.C22.o1.tw	Method	TBLASTX:Wheat
Start	342	End	857
GI	none	Score	420
Exons	342..854, 395..850, 573..857		

Seq. No.	55559	Seq. ID	OJ000323_33.0420.C22
Gene No.	116409	Strand	+
Start	1	End	861
Name	OJ000323_33.0420.C22.o1.tc	Method	TBLASTX:Cress
Start	633	End	854
GI	none	Score	193
Exons	633..854, 641..850		

Seq. No.	55560	Seq. ID	OJ000323_33.0420.C24
Gene No.	116410	Strand	+
Start	267	End	876
Name	OJ000323_33.0420.C24.o1.gs	Method	GENSCAN
Start	267	End	876
GI	none	Score	.47
Exons	267..876		

Seq. No.	55561	Seq. ID	OJ000323_33.0420.C25
Gene No.	116411	Strand	+
Start	1	End	1367
Name	OJ000323_33.0420.C25.o1.np	Method	AAT/NAP
Start	1	End	1367
GI	5441880	Score	1042
Exons	1..363, 923..1073, 1179..1367		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the		

predicted gene.; Similar to maize transposon MuDR mudrA protein.
(AC003981) [Oryza sativa]

Seq. No.	55561	Seq. ID	OJ000323_33.0420.C25
Gene No.	116411	Strand	+
Start	1	End	1367
Name	OJ000323_33.0420.C25.ol.gs	Method	GENSCAN
Start	286	End	1297
GI	none	Score	.65
Exons	286..483, 923..1073, 1179..1297		

Seq. No.	55562	Seq. ID	OJ000323_33.0420.C26
Gene No.	116412	Strand	-
Start	627	End	703
Name	OJ000323_33.0420.C26.ol.gs	Method	GENSCAN
Start	627	End	703
GI	none	Score	.69
Exons	627..703		

Seq. No.	55563	Seq. ID	OJ000323_33.0420.C27
Gene No.	116413	Strand	-
Start	337	End	717
Name	OJ000323_33.0420.C27.ol.gs	Method	GENSCAN
Start	337	End	717
GI	none	Score	.7
Exons	337..489, 558..717		

Seq. No.	55564	Seq. ID	OJ000323_33.0420.C32
Gene No.	116414	Strand	-
Start	300	End	1094
Name	OJ000323_33.0420.C32.ol.gp	Method	AAT/GAP
Start	300	End	868
GI	none	Score	1005
Exons	300..868		

Seq. No.	55564	Seq. ID	OJ000323_33.0420.C32
Gene No.	116414	Strand	-
Start	300	End	1094
Name	OJ000323_33.0420.C32.ol.np	Method	AAT/NAP
Start	699	End	1094
GI	7486255	Score	291
Exons	699..1094		

GI Descrip. hypothetical protein F27G19.20 - Arabidopsis thaliana
gi|4972067|emb|CAB43874.1| (AL078467) putative protei
[Arabidopsis thaliana] gi|7269596|emb|CAB81392.1| (AL161571)
putative protein [Arabidopsis thaliana]

Seq. No.	55564	Seq. ID	OJ000323_33.0420.C32
Gene No.	116414	Strand	-
Start	300	End	1094
Name	OJ000323_33.0420.C32.ol.tc	Method	TBLASTX:Cress
Start	708	End	1094
GI	none	Score	152
Exons	708..851, 882..1094, 895..1092		

Seq. No.	55564	Seq. ID	OJ000323_33.0420.C32
Gene No.	116414	Strand	-

Start	300	End	1094
Name	OJ000323_33.0420.C32.o1.gs	Method	GENSCAN
Start	709	End	1046
GI	none	Score	.55
Exons	709..1046		
Seq. No.	55564	Seq. ID	OJ000323_33.0420.C32
Gene No.	116414	Strand	-
Start	300	End	1094
Name	OJ000323_33.0420.C32.o1.ts	Method	TBLASTX:Soybean
Start	714	End	1091
GI	none	Score	84
Exons	714..824, 888..1091, 937..1071		
Seq. No.	55564	Seq. ID	OJ000323_33.0420.C32
Gene No.	116414	Strand	-
Start	300	End	1094
Name	OJ000323_33.0420.C32.o1.tm	Method	TBLASTX:Maize
Start	907	End	1094
GI	none	Score	205
Exons	907..1056, 909..1055, 1056..1094, 1057..1092		
Seq. No.	55565	Seq. ID	OJ000323_33.0420.C33
Gene No.	116415	Strand	-
Start	39	End	3731
Name	OJ000323_33.0420.C33.o1.gs	Method	GENSCAN
Start	39	End	3571
GI	none	Score	.85
Exons	39..233, 1024..1050, 2157..3033, 3266..3571		
Seq. No.	55565	Seq. ID	OJ000323_33.0420.C33
Gene No.	116415	Strand	-
Start	39	End	3731
Name	OJ000323_33.0420.C33.o1.np	Method	AAT/NAP
Start	103	End	2983
GI	6978921	Score	617
Exons	103..169, 2153..2983		
GI Descrip.	(AC021665) putative ABC transporter [Arabidopsis thaliana]		
Seq. No.	55565	Seq. ID	OJ000323_33.0420.C33
Gene No.	116415	Strand	-
Start	39	End	3731
Name	OJ000323_33.0420.C33.o1.tc	Method	TBLASTX:Cress
Start	2149	End	2898
GI	none	Score	95
Exons	2149..2289, 2275..2493, 2635..2697, 2803..2898		
Seq. No.	55565	Seq. ID	OJ000323_33.0420.C33
Gene No.	116415	Strand	-
Start	39	End	3731
Name	OJ000323_33.0420.C33.o1.tm	Method	TBLASTX:Maize
Start	2153	End	2433
GI	none	Score	234
Exons	2153..2425, 2155..2433		
Seq. No.	55565	Seq. ID	OJ000323_33.0420.C33
Gene No.	116415	Strand	-

Start	39	End	3731
Name	OJ000323_33.0420.C33.ol.ts	Method	TBLASTX:Soybean
Start	2275	End	2898
GI	none	Score	105
Exons	2275..2352, 2353..2493, 2554..2703, 2803..2898		

Seq. No.	55565	Seq. ID	OJ000323_33.0420.C33
Gene No.	116415	Strand	-
Start	39	End	3731
Name	OJ000323_33.0420.C33.ol.gp	Method	AAT/GAP
Start	3298	End	3731
GI	none	Score	838
Exons	3298..3731		

Seq. No.	55566	Seq. ID	OJ000323_33.0420.C34
Gene No.	116416	Strand	-
Start	130	End	1077
Name	OJ000323_33.0420.C34.ol.np	Method	AAT/NAP
Start	130	End	637
GI	7486008	Score	158
Exons	130..216, 320..363, 473..637		
GI Descrip.	hypothetical protein F2206.230 - Arabidopsis thaliana gi 4886288 emb CAB43446.1 (AL050300) putative protein [Arabidopsis thaliana]		

Seq. No.	55566	Seq. ID	OJ000323_33.0420.C34
Gene No.	116416	Strand	-
Start	130	End	1077
Name	OJ000323_33.0420.C34.ol.tm	Method	TBLASTX:Maize
Start	135	End	1077
GI	none	Score	83
Exons	135..224, 139..204, 286..363, 309..392, 309..365, 320..397, 459..530, 459..530, 502..585, 650..754, 651..755, 720..755, 870..896, 870..893, 1027..1077		

Seq. No.	55566	Seq. ID	OJ000323_33.0420.C34
Gene No.	116416	Strand	-
Start	130	End	1077
Name	OJ000323_33.0420.C34.ol.gs	Method	GENSCAN
Start	136	End	1055
GI	none	Score	.85
Exons	136..216, 414..530, 575..740, 874..1055		

Seq. No.	55566	Seq. ID	OJ000323_33.0420.C34
Gene No.	116416	Strand	-
Start	130	End	1077
Name	OJ000323_33.0420.C34.ol.ts	Method	TBLASTX:Soybean
Start	323	End	914
GI	none	Score	58
Exons	323..397, 330..392, 459..530, 502..531, 650..754, 651..755, 720..755, 870..914		

Seq. No.	55567	Seq. ID	OJ000323_33.0420.C37
Gene No.	116417	Strand	+
Start	1	End	1833
Name	OJ000323_33.0420.C37.ol.np	Method	AAT/NAP
Start	1	End	217

GI 7228442 Score 260
 Exons 1..217
 GI Descrip. (AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]

Seq. No. 55567 Seq. ID OJ000323_33.0420.C37
 Gene No. 116417 Strand +
 Start 1 End 1833
 Name OJ000323_33.0420.C37.o1.gp Method AAT/GAP
 Start 18 End 1833
 GI LIB3431-045-P1-N1-A10 Score 813
 Exons 18..361, 1724..1833
 GI Descrip. '5441876/dbj|AP000367.1|AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'

Seq. No. 55567 Seq. ID OJ000323_33.0420.C37
 Gene No. 116417 Strand +
 Start 1 End 1833
 Name OJ000323_33.0420.C37.o2.np Method AAT/NAP
 Start 598 End 1338
 GI 7228438 Score 973
 Exons 598..907, 1078..1338
 GI Descrip. (AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]

Seq. No. 55567 Seq. ID OJ000323_33.0420.C37
 Gene No. 116418 Strand +
 Start 1854 End 2685
 Name OJ000323_33.0420.C37.o3.np Method AAT/NAP
 Start 1854 End 2685
 GI 5777617 Score 97
 Exons 1854..1966, 2045..2127, 2576..2685
 GI Descrip. (AJ245900) CAA30375.1 protein [Oryza sativa]

Seq. No. 55567 Seq. ID OJ000323_33.0420.C37
 Gene No. 116419 Strand -
 Start 1776 End 2178
 Name OJ000323_33.0420.C37.o2.gp Method AAT/GAP
 Start 1776 End 2178
 GI 7406_1.R1084 Score 649
 Exons 1776..2178
 GI Descrip. '1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'

Seq. No. 55568 Seq. ID OJ000323_33.0420.C38
 Gene No. 116420 Strand -
 Start 454 End 560
 Name OJ000323_33.0420.C38.o1.np Method AAT/NAP
 Start 454 End 560
 GI 5777617 Score 90
 Exons 454..560
 GI Descrip. (AJ245900) CAA30375.1 protein [Oryza sativa]

Seq. No. 55568 Seq. ID OJ000323_33.0420.C38
 Gene No. 116421 Strand -

Start	1897	End	2713
Name	OJ000323_33.0420.C38.o2.np	Method	AAT/NAP
Start	1897	End	2713
GI	7523488	Score	62
Exons	1897..2008, 2436..2577, 2681..2713		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	55569	Seq. ID	OJ000323_33.0420.C39
Gene No.	116422	Strand	+
Start	794	End	962
Name	OJ000323_33.0420.C39.o1.gs	Method	GENSCAN
Start	794	End	962
GI	none	Score	.75
Exons	794..962		

Seq. No.	55570	Seq. ID	OJ000323_33.0420.C40
Gene No.	116423	Strand	+
Start	1	End	740
Name	OJ000323_33.0420.C40.o1.np	Method	AAT/NAP
Start	1	End	740
GI	4680179	Score	1109
Exons	1..740		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	55570	Seq. ID	OJ000323_33.0420.C40
Gene No.	116423	Strand	+
Start	1	End	740
Name	OJ000323_33.0420.C40.o2.tm	Method	TBLASTX:Maize
Start	2	End	268
GI	none	Score	214
Exons	2..268		

Seq. No.	55570	Seq. ID	OJ000323_33.0420.C40
Gene No.	116423	Strand	+
Start	1	End	740
Name	OJ000323_33.0420.C40.o2.tw	Method	TBLASTX:Wheat
Start	28	End	286
GI	none	Score	124
Exons	28..108, 29..112, 38..109, 116..286, 122..283, 124..285		

Seq. No.	55570	Seq. ID	OJ000323_33.0420.C40
Gene No.	116423	Strand	+
Start	1	End	740
Name	OJ000323_33.0420.C40.o1.gs	Method	GENSCAN
Start	47	End	730
GI	none	Score	.46
Exons	47..730		

Seq. No.	55570	Seq. ID	OJ000323_33.0420.C40
Gene No.	116423	Strand	+
Start	1	End	740
Name	OJ000323_33.0420.C40.o1.ts	Method	TBLASTX:Soybean
Start	179	End	574
GI	none	Score	57
Exons	179..211, 179..211, 215..268, 217..258, 323..574, 331..564		

Seq. No.	55570	Seq. ID	OJ000323_33.0420.C40
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Gene No.	116423	Strand	+
Start	1	End	740
Name	OJ000323_33.0420.C40.ol.tw	Method	TBLASTX:Wheat
Start	287	End	688
GI	none	Score	47
Exons	287..622, 306..380, 326..688, 328..687		

Seq. No.	55570	Seq. ID	OJ000323_33.0420.C40
Gene No.	116423	Strand	+
Start	1	End	740
Name	OJ000323_33.0420.C40.ol.tm	Method	TBLASTX:Maize
Start	323	End	739
GI	none	Score	356
Exons	323..739, 376..738		

Seq. No.	55571	Seq. ID	OJ000323_33.0420.C41
Gene No.	116424	Strand	-
Start	637	End	710
Name	OJ000323_33.0420.C41.ol.gs	Method	GENSCAN
Start	637	End	710
GI	none	Score	.87
Exons	637..710		

Seq. No.	55572	Seq. ID	OJ000323_33.0420.C42
Gene No.	116425	Strand	-
Start	298	End	694
Name	OJ000323_33.0420.C42.ol.gs	Method	GENSCAN
Start	298	End	694
GI	none	Score	.65
Exons	298..400, 537..694		

Seq. No.	55573	Seq. ID	OJ000323_33.0420.C43
Gene No.	116426	Strand	+
Start	1	End	1674
Name	OJ000323_33.0420.C43.ol.np	Method	AAT/NAP
Start	1	End	1674
GI	7486008	Score	.82
Exons	1..55, 783..1061, 1528..1674		
GI Descrip.	hypothetical protein F2206.230 - Arabidopsis thaliana gi 4886288 emb CAB43446.1 (AL050300) putative protein [Arabidopsis thaliana]		

Seq. No.	55574	Seq. ID	OJ000323_33.0420.C44
Gene No.	116427	Strand	-
Start	314	End	3768
Name	OJ000323_33.0420.C44.ol.gs	Method	GENSCAN
Start	314	End	3768
GI	none	Score	.49
Exons	314..447, 3088..3298, 3304..3768		

Seq. No.	55575	Seq. ID	OJ000323_33.0420.C45
Gene No.	116428	Strand	+
Start	992	End	1074
Name	OJ000323_33.0420.C45.ol.gs	Method	GENSCAN
Start	992	End	1074
GI	none	Score	.69
Exons	992..1074		

Seq. No.	55576	Seq. ID	OJ000323_33.0420.C46
Gene No.	116429	Strand	+
Start	780	End	1650
Name	OJ000323_33.0420.C46.o1.gs	Method	GENSCAN
Start	780	End	1331
GI	none	Score	.96
Exons	780..1331		

Seq. No.	55576	Seq. ID	OJ000323_33.0420.C46
Gene No.	116429	Strand	+
Start	780	End	1650
Name	OJ000323_33.0420.C46.o1.gp	Method	AAT/GAP
Start	1091	End	1650
GI	3548940	Score	803
Exons	1091..1650		

Seq. No.	55577	Seq. ID	OJ000323_33.0420.C47
Gene No.	116430	Strand	-
Start	54	End	643
Name	OJ000323_33.0420.C47.o1.gs	Method	GENSCAN
Start	54	End	643
GI	none	Score	.46
Exons	54..249, 268..643		

Seq. No.	55578	Seq. ID	OJ000323_33.0420.C48
Gene No.	116431	Strand	+
Start	3433	End	3538
Name	OJ000323_33.0420.C48.o1.np	Method	AAT/NAP
Start	3433	End	3538
GI	140310	Score	135
Exons	3433..3538		
GI Descrip.	PHOTOSYSTEM II REACTION CENTER T PROTEIN gi 82528 pir JQ0254 hypothetical 4K protein (psbH-petB intergenic region) - rice chloroplast gi 12014 emb CAA33974 (X15901) ORF35 [Oryza sativa] gi 2143324 emb CAA73766.1 (Y13328) PSII subunit [Populus deltoides] gi 226636 prf 1603356BK ORF 35 [Oryza sativa]		

Seq. No.	55578	Seq. ID	OJ000323_33.0420.C48
Gene No.	116432	Strand	-
Start	1092	End	2341
Name	OJ000323_33.0420.C48.o1.gs	Method	GENSCAN
Start	1092	End	2341
GI	none	Score	.95
Exons	1092..1466, 1502..2341		

Seq. No.	55578	Seq. ID	OJ000323_33.0420.C48
Gene No.	116433	Strand	-
Start	3589	End	3717
Name	OJ000323_33.0420.C48.o2.np	Method	AAT/NAP
Start	3589	End	3717
GI	131375	Score	187
Exons	3589..3717		
GI Descrip.	PHOTOSYSTEM II REACTION CENTER N PROTEIN gi 72720 pir F2RZN photosystem II protein psbN - rice chloroplast gi 82632 pir S14142 photosystem II protein psbN - wheat chloroplast gi 100123 pir S12130 photosystem II protein psbN -		

Appalachian evening primrose chloroplast gi|100737|pir||JN0417
 photosystem II protein psbN - rye chloroplast
 gi|485419|pir||S12133 photosys

Seq. No.	55578	Seq. ID	OJ000323_33.0420.C48
Gene No.	116434	Strand	-
Start	4718	End	7119
Name	OJ000323_33.0420.C48.o1.tc	Method	TBLASTX:Cress
Start	3335	End	3879
GI	none	Score	65
Exons	3335..3415, 3335..3415, 3414..3494, 3414..3500, 3415..3495, 3506..3544, 3592..3771, 3598..3771, 3778..3879, 3832..3876		

Seq. No.	55578	Seq. ID	OJ000323_33.0420.C48
Gene No.	116434	Strand	-
Start	4718	End	7119
Name	OJ000323_33.0420.C48.o1.tm	Method	TBLASTX:Maize
Start	3592	End	3873
GI	none	Score	330
Exons	3592..3804, 3596..3787, 3790..3825, 3791..3826, 3825..3872, 3829..3873		

Seq. No.	55578	Seq. ID	OJ000323_33.0420.C48
Gene No.	116434	Strand	-
Start	4718	End	7119
Name	OJ000323_33.0420.C48.o1.ts	Method	TBLASTX:Soybean
Start	3595	End	3879
GI	none	Score	219
Exons	3595..3771, 3596..3772, 3598..3771, 3778..3879, 3832..3876		

Seq. No.	55578	Seq. ID	OJ000323_33.0420.C48
Gene No.	116434	Strand	-
Start	4718	End	7119
Name	OJ000323_33.0420.C48.o1.tw	Method	TBLASTX:Wheat
Start	3666	End	3874
GI	none	Score	57
Exons	3666..3695, 3667..3786, 3668..3787, 3668..3787, 3789..3872, 3789..3872, 3790..3873, 3791..3874		

Seq. No.	55578	Seq. ID	OJ000323_33.0420.C48
Gene No.	116434	Strand	-
Start	4718	End	7119
Name	OJ000323_33.0420.C48.o2.gs	Method	GENSCAN
Start	4718	End	7119
GI	none	Score	.52
Exons	4718..4909, 6922..7119		

Seq. No.	55578	Seq. ID	OJ000323_33.0420.C48
Gene No.	116434	Strand	-
Start	4718	End	7119
Name	OJ000323_33.0420.C48.o1.gp	Method	AAT/GAP
Start	5947	End	6041
GI	LIB3477-003-P1-K1-E9	Score	111
Exons	5947..6041		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	55579	Seq. ID	OJ000323_33.0420.C49
Gene No.	116435	Strand	-
Start	2013	End	4770
Name	OJ000323_33.0420.C49.ol.gs	Method	GENSCAN
Start	2013	End	4770
GI	none	Score	.82
Exons	2013..2233, 2427..2535, 2967..3199, 3808..4084, 4309..4770		

Seq. No.	55580	Seq. ID	OJ000323_33.0420.C50
Gene No.	116436	Strand	-
Start	916	End	1236
Name	OJ000323_33.0420.C50.ol.np	Method	AAT/NAP
Start	916	End	1236
GI	5295948	Score	133
Exons	916..1236		
GI Descrip.	(AB026295) hypothetical protein [Oryza sativa]		

Seq. No.	55580	Seq. ID	OJ000323_33.0420.C50
Gene No.	116436	Strand	-
Start	916	End	1236
Name	OJ000323_33.0420.C50.ol.gs	Method	GENSCAN
Start	927	End	1179
GI	none	Score	.98
Exons	927..1179		

Seq. No.	55581	Seq. ID	OJ000323_33.0420.C51
Gene No.	116437	Strand	-
Start	75	End	157
Name	OJ000323_33.0420.C51.ol.gs	Method	GENSCAN
Start	75	End	157
GI	none	Score	.93
Exons	75..157		

Seq. No.	55582	Seq. ID	OJ000323_33.0420.C52
Gene No.	116438	Strand	+
Start	2802	End	3071
Name	OJ000323_33.0420.C52.ol.gp	Method	AAT/GAP
Start	2802	End	3071
GI	LIB3434-035-P1-K1-A7	Score	452
Exons	2802..3071		
GI Descrip.	'5441876/dbj AP000367.1 AP000367 1.0e-114 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	55583	Seq. ID	OJ000323_33.0420.C54
Gene No.	116439	Strand	+
Start	54	End	830
Name	OJ000323_33.0420.C54.ol.gs	Method	GENSCAN
Start	54	End	830
GI	none	Score	.8
Exons	54..371, 545..830		

Seq. No.	55584	Seq. ID	OJ000323_33.0420.C55
Gene No.	116440	Strand	+
Start	133	End	6333
Name	OJ000323_33.0420.C55.ol.np	Method	AAT/NAP
Start	133	End	6333

GI	1184100	Score	92
Exons	133..280, 2118..2198, 4926..5014, 5616..6028, 6310..6333		
GI Descrip.	(U45958) pistil extensin-like protein [Nicotiana glauca]		

Seq. No.	55584	Seq. ID	OJ000323_33.0420.C55
Gene No.	116441	Strand	-
Start	1998	End	5954
Name	OJ000323_33.0420.C55.ol.gs	Method	GENSCAN
Start	1998	End	5954
GI	none	Score	.57
Exons	1998..2465, 2533..2723, 3104..3212, 4486..4642, 4724..4898, 5342..5477, 5793..5954		

Seq. No.	55585	Seq. ID	OJ000323_33.0420.C56
Gene No.	116442	Strand	-
Start	1	End	1273
Name	OJ000323_33.0420.C56.ol.np	Method	AAT/NAP
Start	1	End	1237
GI	7487490	Score	.511
Exons	1..318, 355..583, 629..1237		
GI Descrip.	hypothetical protein T27I1.4 - Arabidopsis thaliana gi 3540181 gb AAC34331.1 (AC004122) Unknown protein [Arabidopsis thaliana]		

Seq. No.	55585	Seq. ID	OJ000323_33.0420.C56
Gene No.	116442	Strand	-
Start	1	End	1273
Name	OJ000323_33.0420.C56.ol.gs	Method	GENSCAN
Start	19	End	1237
GI	none	Score	.68
Exons	19..583, 660..1237		

Seq. No.	55585	Seq. ID	OJ000323_33.0420.C56
Gene No.	116442	Strand	-
Start	1	End	1273
Name	OJ000323_33.0420.C56.ol.ts	Method	TBLASTX:Soybean
Start	728	End	1273
GI	none	Score	69
Exons	728..823, 729..824, 815..928, 822..905, 929..1144, 996..1145, 1178..1273		

Seq. No.	55585	Seq. ID	OJ000323_33.0420.C56
Gene No.	116442	Strand	-
Start	1	End	1273
Name	OJ000323_33.0420.C56.ol.tc	Method	TBLASTX:Cress
Start	824	End	1237
GI	none	Score	59
Exons	824..928, 825..929, 929..1144, 933..1145, 1151..1237		

Seq. No.	55586	Seq. ID	OJ000323_33.0420.C57
Gene No.	116443	Strand	-
Start	47	End	529
Name	OJ000323_33.0420.C57.ol.gs	Method	GENSCAN
Start	47	End	529
GI	none	Score	.57
Exons	47..529		

Seq. No.	55587	Seq. ID	OJ000313_33.0421.C2
Gene No.	116444	Strand	-
Start	1	End	8252
Name	OJ000313_33.0421.C2.o2.np	Method	AAT/NAP
Start	1	End	8014
GI	7340860	Score	75
Exons	1..28, 4710..4768, 7892..8014		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55587	Seq. ID	OJ000313_33.0421.C2
Gene No.	116444	Strand	-
Start	1	End	8252
Name	OJ000313_33.0421.C2.o1.tm	Method	TBLASTX:Maize
Start	189	End	1246
GI	none	Score	115
Exons	189..305, 207..296, 209..304, 559..699, 559..699, 815..880, 816..881, 816..887, 817..915, 1165..1230, 1166..1246, 1167..1232		

Seq. No.	55587	Seq. ID	OJ000313_33.0421.C2
Gene No.	116444	Strand	-
Start	1	End	8252
Name	OJ000313_33.0421.C2.o1.gp	Method	AAT/GAP
Start	206	End	677
GI	uC-osflm202109f08b1	Score	367
Exons	206..305, 560..677		
GI Descrip.	'1946300/emb CAA73132 3.0e-56 (Y12529) hypothetical protein [Silene latifolia]'		

Seq. No.	55587	Seq. ID	OJ000313_33.0421.C2
Gene No.	116444	Strand	-
Start	1	End	8252
Name	OJ000313_33.0421.C2.o1.np	Method	AAT/NAP
Start	215	End	1231
GI	7021726	Score	295
Exons	215..305, 560..696, 816..879, 1167..1231		
GI Descrip.	(AC024081) unknown protein [Arabidopsis thaliana]		

Seq. No.	55587	Seq. ID	OJ000313_33.0421.C2
Gene No.	116444	Strand	-
Start	1	End	8252
Name	OJ000313_33.0421.C2.o1.tc	Method	TBLASTX:Cress
Start	218	End	921
GI	none	Score	108
Exons	218..304, 559..699, 559..699, 562..678, 565..687, 816..887, 817..921		

Seq. No.	55587	Seq. ID	OJ000313_33.0421.C2
Gene No.	116444	Strand	-
Start	1	End	8252
Name	OJ000313_33.0421.C2.o2.tw	Method	TBLASTX:Wheat
Start	2446	End	2815
GI	none	Score	49
Exons	2446..2493, 2448..2498, 2585..2734, 2586..2735, 2587..2742, 2738..2815		

Seq. No.	55587	Seq. ID	OJ000313_33.0421.C2
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Gene No.	116444	Strand	-
Start	1	End	8252
Name	OJ000313_33.0421.C2.ol.tw	Method	TBLASTX:Wheat
Start	3883	End	8252
GI	none	Score	96
Exons	3883..4089, 3889..4089, 4120..4269, 4121..4267, 6163..6195, 6200..6247, 8079..8252, 8082..8228		

Seq. No.	55588	Seq. ID	OJ000313_33.0421.C3
Gene No.	116445	Strand	-
Start	1863	End	3425
Name	OJ000313_33.0421.C3.ol.gs	Method	GENSCAN
Start	1863	End	3425
GI	none	Score	.88
Exons	1863..1898, 1903..2068, 2549..2847, 3366..3425		

Seq. No.	55589	Seq. ID	OJ000313_33.0421.C4
Gene No.	116446	Strand	+
Start	119	End	2690
Name	OJ000313_33.0421.C4.ol.gs	Method	GENSCAN
Start	119	End	2592
GI	none	Score	.67
Exons	119..381, 492..573, 844..1039, 1299..1397, 1836..1957, 2578..2592		

Seq. No.	55589	Seq. ID	OJ000313_33.0421.C4
Gene No.	116446	Strand	+
Start	119	End	2690
Name	OJ000313_33.0421.C4.ol.np	Method	AAT/NAP
Start	138	End	1971
GI	6598804	Score	781
Exons	138..320, 467..573, 844..1039, 1299..1428, 1521..1708, 1901..1971		

GI Descrip. (AF024504) similar to prolyl 4-hydroxylase alpha subunit [Arabidopsis thaliana]

Seq. No.	55589	Seq. ID	OJ000313_33.0421.C4
Gene No.	116446	Strand	+
Start	119	End	2690
Name	OJ000313_33.0421.C4.o2.ts	Method	TBLASTX:Soybean
Start	492	End	1038
GI	none	Score	55
Exons	492..572, 492..572, 493..579, 837..1034, 842..1036, 844..1038, 844..1038		

Seq. No.	55589	Seq. ID	OJ000313_33.0421.C4
Gene No.	116446	Strand	+
Start	119	End	2690
Name	OJ000313_33.0421.C4.ol.gp	Method	AAT/GAP
Start	511	End	2690
GI	8521_1.R1084	Score	1836
Exons	511..573, 844..1039, 1299..1428, 1521..1708, 1901..2000, 2376..2690		

GI Descrip. '2435511 3.0e-77 (AF024504) contains similarity to prolyl 4-hydroxylase alpha subunit [Arabidopsis thaliana]'

Seq. No.	55589	Seq. ID	OJ000313_33.0421.C4
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Gene No.	116446	Strand	+
Start	119	End	2690
Name	OJ000313_33.0421.C4.o1.tc	Method	TBLASTX:Cress
Start	853	End	1965
GI	none	Score	157
Exons	853..1035, 1298..1429, 1333..1434, 1335..1427, 1522..1563, 1525..1563, 1590..1709, 1627..1710, 1899..1955, 1900..1965		

Seq. No.	55589	Seq. ID	OJ000313_33.0421.C4
Gene No.	116446	Strand	+
Start	119	End	2690
Name	OJ000313_33.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	949	End	2571
GI	none	Score	142
Exons	949..1038, 954..1034, 1266..1427, 1293..1427, 1298..1429, 1303..1428, 1515..1709, 1522..1710, 1527..1715, 1893..1991, 1900..2025, 1900..1992, 2401..2571		

Seq. No.	55589	Seq. ID	OJ000313_33.0421.C4
Gene No.	116446	Strand	+
Start	119	End	2690
Name	OJ000313_33.0421.C4.o1.ts	Method	TBLASTX:Soybean
Start	1313	End	1974
GI	none	Score	194
Exons	1313..1429, 1326..1394, 1381..1428, 1515..1709, 1522..1710, 1893..1973, 1900..1974		

Seq. No.	55590	Seq. ID	OJ000313_33.0421.C5
Gene No.	116447	Strand	+
Start	1	End	3362
Name	OJ000313_33.0421.C5.o1.np	Method	AAT/NAP
Start	1	End	3237
GI	3461813	Score	1325
Exons	1..215, 294..358, 444..528, 670..703, 789..888, 1380..1455, 1616..1957, 2068..2211, 2482..2715, 2791..2854, 2939..2982, 3073..3237		

GI Descrip. (AC004138) putative sucrose-proton symporter [Arabidopsis thaliana]

Seq. No.	55590	Seq. ID	OJ000313_33.0421.C5
Gene No.	116447	Strand	+
Start	1	End	3362
Name	OJ000313_33.0421.C5.o2.ts	Method	TBLASTX:Soybean
Start	99	End	502
GI	none	Score	164
Exons	99..218, 110..232, 111..218, 293..358, 294..359, 296..364, 424..501, 445..501, 446..502		

Seq. No.	55590	Seq. ID	OJ000313_33.0421.C5
Gene No.	116447	Strand	+
Start	1	End	3362
Name	OJ000313_33.0421.C5.o4.tm	Method	TBLASTX:Maize
Start	110	End	1705
GI	none	Score	145
Exons	110..220, 111..218, 293..358, 294..356, 442..528, 664..708, 666..707, 802..888, 803..922, 1377..1457, 1381..1458, 1558..1686, 1616..1705		

Seq. No.	55590	Seq. ID	OJ000313_33.0421.C5
Gene No.	116447	Strand	+
Start	1	End	3362
Name	OJ000313_33.0421.C5.o1.gs	Method	GENSCAN
Start	117	End	3262
GI	none	Score	.81
Exons	117..215, 670..703, 789..888, 1380..1455, 1616..1957, 2068..2211, 2482..2715, 2791..2854, 2939..2982, 3164..3262		

Seq. No.	55590	Seq. ID	OJ000313_33.0421.C5
Gene No.	116447	Strand	+
Start	1	End	3362
Name	OJ000313_33.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	1829	End	2183
GI	none	Score	196
Exons	1829..1966, 1855..1956, 2067..2183, 2068..2181		

Seq. No.	55590	Seq. ID	OJ000313_33.0421.C5
Gene No.	116447	Strand	+
Start	1	End	3362
Name	OJ000313_33.0421.C5.o1.ts	Method	TBLASTX:Soybean
Start	1832	End	2214
GI	none	Score	48
Exons	1832..1906, 1858..1905, 1886..1966, 1894..1953, 2050..2208, 2057..2209, 2067..2210, 2067..2213, 2068..2214		

Seq. No.	55590	Seq. ID	OJ000313_33.0421.C5
Gene No.	116447	Strand	+
Start	1	End	3362
Name	OJ000313_33.0421.C5.o2.tm	Method	TBLASTX:Maize
Start	2184	End	2732
GI	none	Score	58
Exons	2184..2213, 2473..2721, 2481..2729, 2484..2732		

Seq. No.	55590	Seq. ID	OJ000313_33.0421.C5
Gene No.	116447	Strand	+
Start	1	End	3362
Name	OJ000313_33.0421.C5.o3.ts	Method	TBLASTX:Soybean
Start	2493	End	2817
GI	none	Score	224
Exons	2493..2612, 2494..2721, 2641..2715, 2791..2817		

Seq. No.	55590	Seq. ID	OJ000313_33.0421.C5
Gene No.	116447	Strand	+
Start	1	End	3362
Name	OJ000313_33.0421.C5.o4.ts	Method	TBLASTX:Soybean
Start	2937	End	3198
GI	none	Score	65
Exons	2937..2987, 2938..2985, 3069..3194, 3070..3198		

Seq. No.	55590	Seq. ID	OJ000313_33.0421.C5
Gene No.	116447	Strand	+
Start	1	End	3362
Name	OJ000313_33.0421.C5.o3.tm	Method	TBLASTX:Maize
Start	3070	End	3362
GI	none	Score	251

Exons 3070..3261, 3072..3242, 3276..3329, 3287..3346, 3288..3362, 3290..3346

Seq. No. 55591 Seq. ID OJ000313_33.0421.C6
Gene No. 116448 Strand +
Start 1 End 1792
Name OJ000313_33.0421.C6.o1.gp Method AAT/GAP
Start 1 End 845
GI 31294_2.R1084 Score 746
Exons 1..104, 224..340, 467..592, 697..845
GI Descrip. '4455274|emb|CAB36810.1| 5.0e-12 (AL035527) spliceosome associated protein-like [Arabidopsis thaliana]'

Seq. No. 55591 Seq. ID OJ000313_33.0421.C6
Gene No. 116448 Strand +
Start 1 End 1792
Name OJ000313_33.0421.C6.o1.np Method AAT/NAP
Start 1 End 1792
GI 7488345 Score 326
Exons 1..104, 230..340, 467..592, 697..759, 1317..1424, 1752..1792
GI Descrip. spliceosome-associated protein homolog F17L22.120 - Arabidopsis thaliana gi|4455274|emb|CAB36810.1| (AL035527) spliceosome associated protein-like [Arabidopsis thaliana] gi|7268963|emb|CAB81273.1| (AL161555) spliceosome associated protein-like [Arabidopsis thaliana]

Seq. No. 55591 Seq. ID OJ000313_33.0421.C6
Gene No. 116448 Strand +
Start 1 End 1792
Name OJ000313_33.0421.C6.o1.gs Method GENSCAN
Start 224 End 1424
GI none Score .79
Exons 224..340, 467..592, 697..759, 1317..1424

Seq. No. 55591 Seq. ID OJ000313_33.0421.C6
Gene No. 116448 Strand +
Start 1 End 1792
Name OJ000313_33.0421.C6.o1.tm Method TBLASTX:Maize
Start 257 End 1424
GI none Score 97
Exons 257..337, 286..345, 467..511, 480..539, 539..595, 695..760, 697..762, 706..759, 1316..1423, 1317..1424

Seq. No. 55591 Seq. ID OJ000313_33.0421.C6
Gene No. 116448 Strand +
Start 1 End 1792
Name OJ000313_33.0421.C6.o1.ts Method TBLASTX:Soybean
Start 696 End 1424
GI none Score 59
Exons 696..761, 697..762, 1316..1423, 1317..1424

Seq. No. 55592 Seq. ID OJ000313_33.0421.C8
Gene No. 116449 Strand +
Start 534 End 1351
Name OJ000313_33.0421.C8.o1.gp Method AAT/GAP
Start 534 End 921
GI 701449 Score 703

Exons 534..921

Seq. No.	55592	Seq. ID	OJ000313_33.0421.C8
Gene No.	116449	Strand	+
Start	534	End	1351
Name	OJ000313_33.0421.C8.o1.gs	Method	GENSCAN
Start	726	End	1122
GI	none	Score	.69
Exons	726..989, 1027..1122		

Seq. No.	55592	Seq. ID	OJ000313_33.0421.C8
Gene No.	116449	Strand	+
Start	534	End	1351
Name	OJ000313_33.0421.C8.o1.np	Method	AAT/NAP
Start	733	End	1351
GI	6434831	Score	120
Exons	733..1004, 1325..1351		
GI Descrip.	(AF021809) putative sucrose transporter [Vitis vinifera]		

Seq. No.	55593	Seq. ID	OJ000313_33.0421.C9
Gene No.	116450	Strand	+
Start	5945	End	6593
Name	OJ000313_33.0421.C9.o2.gs	Method	GENSCAN
Start	5945	End	6593
GI	none	Score	.67
Exons	5945..6273, 6308..6593		

Seq. No.	55593	Seq. ID	OJ000313_33.0421.C9
Gene No.	116451	Strand	-
Start	1	End	4460
Name	OJ000313_33.0421.C9.o1.np	Method	AAT/NAP
Start	1	End	4460
GI	7486103	Score	738
Exons	1..285, 664..943, 980..1212, 1266..1447, 1527..1590, 1659..1791, 1920..2019, 2269..2377, 3289..3358, 4388..4460		
GI Descrip.	hypothetical protein F2401.2 - Arabidopsis thaliana gi 2781345 gb AAB96846.1 (AC003113) F2401.2 [Arabidopsis thaliana]		

Seq. No.	55593	Seq. ID	OJ000313_33.0421.C9
Gene No.	116451	Strand	-
Start	1	End	4460
Name	OJ000313_33.0421.C9.o1.gs	Method	GENSCAN
Start	96	End	4385
GI	none	Score	.62
Exons	96..285, 664..1365, 1556..1590, 1659..1815, 2500..2604, 3241..3360, 4149..4385		

Seq. No.	55593	Seq. ID	OJ000313_33.0421.C9
Gene No.	116451	Strand	-
Start	1	End	4460
Name	OJ000313_33.0421.C9.o1.gp	Method	AAT/GAP
Start	3229	End	4412
GI	5003012	Score	692
Exons	3229..3360, 4149..4412		

Seq. No.	55593	Seq. ID	OJ000313_33.0421.C9
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Gene No.	116452	Strand	-
Start	6535	End	6817
Name	OJ000313_33.0421.C9.o1.tc	Method	TBLASTX:Cress
Start	79	End	279
GI	none	Score	122
Exons	79..222, 95..220, 232..279		
Seq. No.	55593	Seq. ID	OJ000313_33.0421.C9
Gene No.	116452	Strand	-
Start	6535	End	6817
Name	OJ000313_33.0421.C9.o1.tm	Method	TBLASTX:Maize
Start	730	End	1776
GI	none	Score	159
Exons	730..927, 734..886, 955..978, 995..1189, 1003..1233, 1048..1230, 1333..1440, 1341..1439, 1654..1776		
Seq. No.	55593	Seq. ID	OJ000313_33.0421.C9
Gene No.	116452	Strand	-
Start	6535	End	6817
Name	OJ000313_33.0421.C9.o1.ts	Method	TBLASTX:Soybean
Start	754	End	1446
GI	none	Score	87
Exons	754..930, 755..886, 1045..1200, 1324..1446		
Seq. No.	55593	Seq. ID	OJ000313_33.0421.C9
Gene No.	116452	Strand	-
Start	6535	End	6817
Name	OJ000313_33.0421.C9.o2.tm	Method	TBLASTX:Maize
Start	1962	End	2393
GI	none	Score	80
Exons	1962..2021, 1962..2018, 1963..2019, 1964..2020, 2260..2391, 2264..2389, 2268..2393		
Seq. No.	55593	Seq. ID	OJ000313_33.0421.C9
Gene No.	116452	Strand	-
Start	6535	End	6817
Name	OJ000313_33.0421.C9.o2.gp	Method	AAT/GAP
Start	6535	End	6817
GI	LIB3431-011-P1-N1-F6	Score	554
Exons	6535..6817		
GI Descrip.	'5441880/dbj BAA82378.1 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		
Seq. No.	55594	Seq. ID	OJ000313_33.0421.C10
Gene No.	116453	Strand	-
Start	3628	End	4748
Name	OJ000313_33.0421.C10.o1.np	Method	AAT/NAP
Start	3628	End	4748
GI	7340920	Score	156
Exons	3628..3742, 4706..4748		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		
Seq. No.	55594	Seq. ID	OJ000313_33.0421.C10
Gene No.	116454	Strand	-
Start	4777	End	5070
Name	OJ000313_33.0421.C10.o2.gs	Method	GENSCAN

Start 4777
 GI none
 Exons 4777..4867, 4973..5070

End 5070
 Score .94

Seq. No. 55595
 Gene No. 116455
 Start 56
 Name OJ000313_33.0421.C11.o1.gp
 Start 56
 GI none
 Exons 56..514

Seq. ID OJ000313_33.0421.C11
 Strand +
 End 4433
 Method AAT/GAP
 End 514
 Score .902

Seq. No. 55595
 Gene No. 116455
 Start 56
 Name OJ000313_33.0421.C11.o1.gs
 Start 223
 GI none
 Exons 223..484, 3595..3646, 3680..3787, 3983..4094, 4193..4433

Seq. ID OJ000313_33.0421.C11
 Strand +
 End 4433
 Method GENSCAN
 End 4433
 Score .52

Seq. No. 55595
 Gene No. 116456
 Start 5547
 Name OJ000313_33.0421.C11.o2.gs
 Start 5547
 GI none
 Exons 5547..5707, 5847..5886, 6183..6395, 6749..6865, 7528..7627, 8001..8128

Seq. ID OJ000313_33.0421.C11
 Strand -
 End 8128
 Method GENSCAN
 End 8128
 Score .52

Seq. No. 55595
 Gene No. 116457
 Start 9000
 Name OJ000313_33.0421.C11.o2.gp
 Start 9000
 GI 2431259
 Exons 9000..9450

Seq. ID OJ000313_33.0421.C11
 Strand -
 End 10313
 Method AAT/GAP
 End 9450
 Score 786

Seq. No. 55595
 Gene No. 116457
 Start 9000
 Name OJ000313_33.0421.C11.o1.np
 Start 9294
 GI 7340723
 Exons 9294..9416, 9966..10313
 GI Descrip. (AL162507) putative protein [Arabidopsis thaliana]

Seq. ID OJ000313_33.0421.C11
 Strand -
 End 10313
 Method AAT/NAP
 End 10313
 Score 186

Seq. No. 55596
 Gene No. 116458
 Start 1
 Name OJ000313_33.0421.C13.o1.np
 Start 1
 GI 2760084
 Exons 1..23, 331..403
 GI Descrip. (Y16045) leucine-rich repeat protein [Arabidopsis thaliana]

Seq. ID OJ000313_33.0421.C13
 Strand +
 End 403
 Method AAT/NAP
 End 403
 Score 90

Seq. No. 55596
 Gene No. 116459

Seq. ID OJ000313_33.0421.C13
 Strand +

Start	1052	End	2649
Name	OJ000313_33.0421.C13.ol.gs	Method	GENSCAN
Start	1052	End	2649
GI	none	Score	.87
Exons	1052..1084, 1804..1929, 2040..2492, 2494..2649		

Seq. No.	55596	Seq. ID	OJ000313_33.0421.C13
Gene No.	116460	Strand	-
Start	304	End	678
Name	OJ000313_33.0421.C13.ol.gp	Method	AAT/GAP
Start	304	End	678
GI	36122_1.R1084	Score	682
Exons	304..678		
GI Descrip.	'1946300/emb CAA73132 2.0e-18 (Y12529) hypothetical protein [Silene latifolia]'		

Seq. No.	55596	Seq. ID	OJ000313_33.0421.C13
Gene No.	116461	Strand	-
Start	2057	End	2390
Name	OJ000313_33.0421.C13.ol.tw	Method	TBLASTX:Wheat
Start	2057	End	2390
GI	none	Score	63
Exons	2057..2155, 2058..2123, 2058..2165, 2061..2162, 2238..2390		

Seq. No.	55597	Seq. ID	OJ000313_33.0421.C16
Gene No.	116462	Strand	+
Start	294	End	1856
Name	OJ000313_33.0421.C16.ol.gs	Method	GENSCAN
Start	294	End	1856
GI	none	Score	.73
Exons	294..315, 562..710, 1734..1856		

Seq. No.	55597	Seq. ID	OJ000313_33.0421.C16
Gene No.	116463	Strand	+
Start	3280	End	4569
Name	OJ000313_33.0421.C16.o3.gs	Method	GENSCAN
Start	3280	End	4569
GI	none	Score	.73
Exons	3280..3408, 3673..3756, 4408..4569		

Seq. No.	55597	Seq. ID	OJ000313_33.0421.C16
Gene No.	116464	Strand	-
Start	2139	End	2404
Name	OJ000313_33.0421.C16.o2.gs	Method	GENSCAN
Start	2139	End	2404
GI	none	Score	.54
Exons	2139..2277, 2337..2404		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116465	Strand	+
Start	525	End	966
Name	OJ000313_33.0421.C17.ol.gp	Method	AAT/GAP
Start	525	End	966
GI	none	Score	819
Exons	525..966		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
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Gene No.	116466	Strand	+
Start	3664	End	3991
Name	OJ000313_33.0421.C17.o3.gp	Method	AAT/GAP
Start	3664	End	3991
GI	3061177	Score	548
Exons	3664..3991		
GI Descrip.	5679837/emb AJ243961.1 OSA243961 2.0e-12 Oryza sativa chromosome 4 BAC 11332 genomic sequences		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116467	Strand	+
Start	4717	End	5000
Name	OJ000313_33.0421.C17.o4.gp	Method	AAT/GAP
Start	4717	End	5000
GI	6024982	Score	481
Exons	4717..5000		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116468	Strand	+
Start	6527	End	10950
Name	OJ000313_33.0421.C17.o2.gs	Method	GENSCAN
Start	6527	End	10950
GI	none	Score	.61
Exons	6527..6761, 8034..8369, 8405..8479, 8580..8680, 8731..8866, 9039..9138, 9221..9287, 9547..9645, 10128..10217, 10777..10950		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116469	Strand	+
Start	11731	End	18025
Name	OJ000313_33.0421.C17.o6.gp	Method	AAT/GAP
Start	11589	End	12603
GI	uC-osroM202041g12b1	Score	869
Exons	11589..11769, 12006..12118, 12258..12326, 12493..12603		
GI Descrip.	'5903045/gb AAD55604.1 AC008016_14 2.0e-21 (AC008016) Similar to gb AF108945 signal peptidase 18 kDa subunit from Homo sapiens. ESTs gb_H76629, gb_H76949 and gb_H76216 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116469	Strand	+
Start	11731	End	18025
Name	OJ000313_33.0421.C17.o1.np	Method	AAT/NAP
Start	11692	End	13294
GI	5903045	Score	381
Exons	11692..11769, 12005..12118, 12258..12324, 12488..12528, 12635..12680, 12859..12946, 13053..13110, 13247..13294		
GI Descrip.	(AC008016) Similar to gb AF108945 signal peptidase 18 kDa subunit from Homo sapiens. ESTs gb H76629, gb H76949 and gb H76216 come from this gene. [Arabidopsis thaliana]		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116469	Strand	+
Start	11731	End	18025
Name	OJ000313_33.0421.C17.o3.gs	Method	GENSCAN
Start	11731	End	18025
GI	none	Score	.67
Exons	11731..11769, 12258..12326, 12635..12680, 12859..12946,		

13053..13110, 14285..14798, 14813..15175, 15379..15723,
16448..16471, 17700..18025

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116469	Strand	+
Start	11731	End	18025
Name	OJ000313_33.0421.C17.o7.gp	Method	AAT/GAP
Start	16428	End	16841
GI	none	Score	743
Exons	16428..16841		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116470	Strand	-
Start	729	End	4754
Name	OJ000313_33.0421.C17.o1.gs	Method	GENSCAN
Start	729	End	4754
GI	none	Score	.63
Exons	729..1443, 2865..3275, 3447..3701, 3780..3929, 4210..4754		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116470	Strand	-
Start	729	End	4754
Name	OJ000313_33.0421.C17.o1.ts	Method	TBLASTX:Soybean
Start	729	End	1314
GI	none	Score	.133
Exons	729..1010, 736..1011, 926..1027, 1032..1154, 1033..1131, 1044..1154, 1179..1313, 1192..1314		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116470	Strand	-
Start	729	End	4754
Name	OJ000313_33.0421.C17.o3.tc	Method	TBLASTX:Cress
Start	729	End	938
GI	none	Score	192
Exons	729..938		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116470	Strand	-
Start	729	End	4754
Name	OJ000313_33.0421.C17.o1.tm	Method	TBLASTX:Maize
Start	729	End	4736
GI	none	Score	143
Exons	729..836, 729..1034, 730..1035, 933..1037, 1018..1131, 1036..1146, 1038..1148, 1041..1151, 1125..1445, 1146..1445, 1183..1446, 4209..4283, 4209..4391, 4287..4736, 4399..4728		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116470	Strand	-
Start	729	End	4754
Name	OJ000313_33.0421.C17.o2.gp	Method	AAT/GAP
Start	1061	End	3496
GI	8323_1.R1084	Score	804
Exons	1061..1443, 3447..3496		
GI Descrip.	'5679837/emb AJ243961.1 OSA243961 2.0e-12 Oryza sativa chromosome 4 BAC 11332 genomic sequences'		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
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Gene No.	116470	Strand	-
Start	729	End	4754
Name	OJ000313_33.0421.C17.o1.tc	Method	TBLASTX:Cress
Start	4299	End	4749
GI	none	Score	177
Exons	4299..4748, 4399..4557, 4603..4749		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116470	Strand	-
Start	729	End	4754
Name	OJ000313_33.0421.C17.o2.ts	Method	TBLASTX:Soybean
Start	4314	End	4742
GI	none	Score	188
Exons	4314..4742, 4399..4626		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116471	Strand	-
Start	8039	End	16905
Name	OJ000313_33.0421.C17.o2.tm	Method	TBLASTX:Maize
Start	8039	End	16905
GI	none	Score	120
Exons	8039..8170, 8056..8145, 8385..8483, 8407..8481, 8575..8640, 8579..8638, 8730..8864, 8731..8865, 9031..9135, 9038..9136, 9210..9287, 9219..9287, 9541..9645, 9544..9648, 9561..9647, 10125..10217, 10125..10211, 10133..10213, 10135..10236, 10474..10632, 10476..10532, 10717..10848, 10873..10929, 16861..16905		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116471	Strand	-
Start	8039	End	16905
Name	OJ000313_33.0421.C17.o4.ts	Method	TBLASTX:Soybean
Start	8051	End	16537
GI	none	Score	149
Exons	8051..8170, 8053..8145, 8183..8326, 8403..8483, 8404..8481, 8579..8638, 8582..8638, 8730..8864, 8731..8865, 8740..8865, 9037..9114, 9038..9136, 9219..9287, 9227..9283, 9544..9645, 9552..9644, 16469..16537		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116471	Strand	-
Start	8039	End	16905
Name	OJ000313_33.0421.C17.o5.ts	Method	TBLASTX:Soybean
Start	10476	End	10767
GI	none	Score	197
Exons	10476..10547, 10477..10632, 10738..10767		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116471	Strand	-
Start	8039	End	16905
Name	OJ000313_33.0421.C17.o5.tm	Method	TBLASTX:Maize
Start	12004	End	13143
GI	none	Score	84
Exons	12004..12135, 12005..12118, 12019..12120, 12024..12125, 12255..12323, 12257..12328, 12261..12332, 12262..12324, 12472..12531, 12635..12682, 12856..12936, 12858..12947, 12858..12935, 13054..13143		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116471	Strand	
Start	8039	End	16905
Name	OJ000313_33.0421.C17.o6.ts	Method	TBLASTX:Soybean
Start	12004	End	13143
GI	none	Score	72
Exons	12004..12111, 12005..12118, 12008..12118, 12028..12135, 12255..12323, 12257..12328, 12472..12531, 12635..12682, 12846..12947, 13054..13143		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116471	Strand	
Start	8039	End	16905
Name	OJ000313_33.0421.C17.o4.tm	Method	TBLASTX:Maize
Start	14394	End	15602
GI	none	Score	151
Exons	14394..14438, 14408..14740, 14429..14800, 14494..14706, 14513..14794, 14546..14746, 14793..14828, 14794..15156, 14836..15177, 15369..15602, 15378..15596, 15378..15551, 15413..15592		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116471	Strand	
Start	8039	End	16905
Name	OJ000313_33.0421.C17.o3.ts	Method	TBLASTX:Soybean
Start	14408	End	15728
GI	none	Score	133
Exons	14408..14761, 14615..14794, 14639..14779, 14794..14955, 14818..15174, 14820..14918, 14973..15119, 15378..15683, 15453..15728		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116471	Strand	
Start	8039	End	16905
Name	OJ000313_33.0421.C17.o2.tc	Method	TBLASTX:Cress
Start	14453	End	15698
GI	none	Score	177
Exons	14453..14800, 14513..14734, 14567..14716, 14618..14800, 14630..14800, 14794..14931, 14794..15117, 14800..15018, 14869..15201, 14938..15150, 14959..15147, 15378..15536, 15384..15698		

Seq. No.	55598	Seq. ID	OJ000313_33.0421.C17
Gene No.	116471	Strand	
Start	8039	End	16905
Name	OJ000313_33.0421.C17.o3.tm	Method	TBLASTX:Maize
Start	15606	End	15860
GI	none	Score	242
Exons	15606..15794, 15607..15795, 15608..15793, 15795..15860, 15797..15859		

Seq. No.	55599	Seq. ID	OJ000313_33.0421.C18
Gene No.	116472	Strand	+
Start	374	End	3610
Name	OJ000313_33.0421.C18.o1.gs	Method	GENSCAN
Start	374	End	3146

GI none Score .58
 Exons 374..656, 707..852, 882..942, 1330..1391, 2283..2342, 2877..2998, 3075..3146

Seq. No. 55599 Seq. ID OJ000313_33.0421.C18
 Gene No. 116472 Strand +
 Start 374 End 3610
 Name OJ000313_33.0421.C18.o2.tm Method TBLASTX:Maize
 Start 1615 End 1893
 GI none Score 150
 Exons 1615..1707, 1616..1699, 1627..1704, 1799..1891, 1801..1893, 1801..1890

Seq. No. 55599 Seq. ID OJ000313_33.0421.C18
 Gene No. 116472 Strand +
 Start 374 End 3610
 Name OJ000313_33.0421.C18.o1.np Method AAT/NAP
 Start 1642 End 3607
 GI 7269838 Score 258
 Exons 1642..1704, 1802..1890, 2112..2190, 2283..2342, 2877..2998, 3075..3146, 3508..3607

GI Descrip. (AL161574) putative protein [Arabidopsis thaliana]

Seq. No. 55599 Seq. ID OJ000313_33.0421.C18
 Gene No. 116472 Strand +
 Start 374 End 3610
 Name OJ000313_33.0421.C18.o1.tm Method TBLASTX:Maize
 Start 2874 End 3610
 GI none Score 210
 Exons 2874..3014, 2875..2988, 2933..2998, 3074..3145, 3075..3146, 3075..3146, 3076..3147, 3482..3610, 3507..3608, 3508..3609

Seq. No. 55600 Seq. ID OJ000313_33.0421.C19
 Gene No. 116473 Strand +
 Start 6683 End 6742
 Name OJ000313_33.0421.C19.o2.gp Method AAT/GAP
 Start 6683 End 6742
 GI uC-osflM2020118f06a1 Score 57
 Exons 6683..6742
 GI Descrip. '576771/gb|U16256|OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3''-end sequence'

Seq. No. 55600 Seq. ID OJ000313_33.0421.C19
 Gene No. 116474 Strand -
 Start 1 End 6896
 Name OJ000313_33.0421.C19.o1.np Method AAT/NAP
 Start 1 End 3980
 GI 6598861 Score 897
 Exons 1..251, 491..597, 878..1232, 1311..1992, 2392..2653, 3788..3980
 GI Descrip. (AC010556) hypothetical protein [Arabidopsis thaliana]

Seq. No. 55600 Seq. ID OJ000313_33.0421.C19
 Gene No. 116474 Strand -
 Start 1 End 6896
 Name OJ000313_33.0421.C19.o1.ts Method TBLASTX:Soybean
 Start 51 End 260
 GI none Score 145

Exons 51..260, 52..255

Seq. No.	55600	Seq. ID	OJ000313_33.0421.C19
Gene No.	116474	Strand	-
Start	1	End	6896
Name	OJ000313_33.0421.C19.o1.gs	Method	GENSCAN
Start	57	End	6896
GI	none	Score	.71
Exons	57..251, 491..582, 878..1232, 1311..1992, 2392..2636, 3077..3216, 3795..4033, 4219..4344, 5117..5466, 6070..6277, 6437..6663, 6807..6896		

Seq. No.	55600	Seq. ID	OJ000313_33.0421.C19
Gene No.	116474	Strand	-
Start	1	End	6896
Name	OJ000313_33.0421.C19.o1.tc	Method	TBLASTX:Cress
Start	57	End	571
GI	none	Score	100
Exons	57..101, 108..260, 109..252, 439..504, 488..571		

Seq. No.	55600	Seq. ID	OJ000313_33.0421.C19
Gene No.	116474	Strand	-
Start	1	End	6896
Name	OJ000313_33.0421.C19.o3.tm	Method	TBLASTX:Maize
Start	57	End	225
GI	none	Score	190
Exons	57..221, 58..225		

Seq. No.	55600	Seq. ID	OJ000313_33.0421.C19
Gene No.	116474	Strand	-
Start	1	End	6896
Name	OJ000313_33.0421.C19.o1.tw	Method	TBLASTX:Wheat
Start	488	End	1204
GI	none	Score	55
Exons	488..538, 489..542, 975..1199, 976..1197, 978..1199, 980..1204		

Seq. No.	55600	Seq. ID	OJ000313_33.0421.C19
Gene No.	116474	Strand	-
Start	1	End	6896
Name	OJ000313_33.0421.C19.o4.tm	Method	TBLASTX:Maize
Start	488	End	1094
GI	none	Score	71
Exons	488..568, 489..566, 489..569, 867..1094, 927..1094		

Seq. No.	55600	Seq. ID	OJ000313_33.0421.C19
Gene No.	116474	Strand	-
Start	1	End	6896
Name	OJ000313_33.0421.C19.o1.gp	Method	AAT/GAP
Start	1296	End	1699
GI	3761642	Score	730
Exons	1296..1699		

Seq. No.	55600	Seq. ID	OJ000313_33.0421.C19
Gene No.	116474	Strand	-
Start	1	End	6896
Name	OJ000313_33.0421.C19.o1.tm	Method	TBLASTX:Maize
Start	1471	End	1888

GI	none	Score	186
Exons	1471..1746, 1472..1720, 1486..1839, 1491..1883, 1670..1885, 1680..1886, 1751..1888		

Seq. No.	55600	Seq. ID	OJ000313_33.0421.C19
Gene No.	116474	Strand	-
Start	1	End	6896
Name	OJ000313_33.0421.C19.o2.tm	Method	TBLASTX:Maize
Start	2388	End	3890
GI	none	Score	265
Exons	2388..2639, 2391..2639, 2392..2640, 3795..3890		

Seq. No.	55600	Seq. ID	OJ000313_33.0421.C19
Gene No.	116474	Strand	-
Start	1	End	6896
Name	OJ000313_33.0421.C19.o2.np	Method	AAT/NAP
Start	5298	End	6887
GI	4206196	Score	379
Exons	5298..5501, 5599..5690, 5882..5967, 6070..6258, 6403..6663, 6807..6887		

GI Descrip. (AF071527) hypothetical protein [Arabidopsis thaliana]
 gi|7270212|emb|CAB77827.1| (AL161496) hypothetical protein
 [Arabidopsis thaliana]

Seq. No.	55600	Seq. ID	OJ000313_33.0421.C19
Gene No.	116474	Strand	-
Start	1	End	6896
Name	OJ000313_33.0421.C19.o2.ts	Method	TBLASTX:Soybean
Start	6436	End	6618
GI	none	Score	187
Exons	6436..6618		

Seq. No.	55601	Seq. ID	OJ000313_27.0418.C1
Gene No.	116475	Strand	-
Start	70	End	299
Name	OJ000313_27.0418.C1.o1.gs	Method	GENSCAN
Start	70	End	299
GI	none	Score	.61
Exons	70..299		

Seq. No.	55602	Seq. ID	OJ000313_27.0418.C2
Gene No.	116476	Strand	+
Start	308	End	374
Name	OJ000313_27.0418.C2.o1.gs	Method	GENSCAN
Start	308	End	374
GI	none	Score	.63
Exons	308..374		

Seq. No.	55603	Seq. ID	OJ000313_27.0418.C5
Gene No.	116477	Strand	+
Start	174	End	2127
Name	OJ000313_27.0418.C5.o1.np	Method	AAT/NAP
Start	174	End	2127
GI	4680186	Score	210
Exons	174..212, 1923..2127		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	55603	Seq. ID	OJ000313_27.0418.C5
Gene No.	116478	Strand	-
Start	1671	End	2056
Name	OJ000313_27.0418.C5.ol.gp	Method	AAT/GAP
Start	1671	End	2056
GI	uC-osflcyp033a04b1	Score	637
Exons	1671..2056		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	55604	Seq. ID	OJ000313_27.0418.C6
Gene No.	116479	Strand	+
Start	2006	End	4541
Name	OJ000313_27.0418.C6.ol.gs	Method	GENSCAN
Start	2006	End	4541
GI	none	Score	.54
Exons	2006..2296, 2665..2780, 3163..3218, 4474..4541		

Seq. No.	55604	Seq. ID	OJ000313_27.0418.C6
Gene No.	116479	Strand	+
Start	2006	End	4541
Name	OJ000313_27.0418.C6.o2.np	Method	AAT/NAP
Start	2401	End	3221
GI	1184100	Score	.53
Exons	2401..2603, 3042..3221		
GI Descrip.	(U45958) pistil extensin-like protein [Nicotiana glauca]		

Seq. No.	55604	Seq. ID	OJ000313_27.0418.C6
Gene No.	116480	Strand	-
Start	1	End	426
Name	OJ000313_27.0418.C6.ol.np	Method	AAT/NAP
Start	1	End	426
GI	6907087	Score	382
Exons	1..426		
GI Descrip.	(AP001129). ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55604	Seq. ID	OJ000313_27.0418.C6
Gene No.	116481	Strand	-
Start	3926	End	4419
Name	OJ000313_27.0418.C6.ol.gp	Method	AAT/GAP
Start	3926	End	4419
GI	576771	Score	840
Exons	3926..4136, 4163..4419		
GI Descrip.	576771/gb U16256 OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3'-end sequence		

Seq. No.	55605	Seq. ID	OJ000313_27.0418.C7
Gene No.	116482	Strand	+
Start	571	End	2396
Name	OJ000313_27.0418.C7.ol.np	Method	AAT/NAP
Start	571	End	2017
GI	5852180	Score	386
Exons	571..640, 1643..2017		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	55605	Seq. ID	OJ000313_27.0418.C7
Gene No.	116482	Strand	+
Start	571	End	2396
Name	OJ000313_27.0418.C7.o1.gs	Method	GENSCAN
Start	1677	End	2396
GI	none	Score	.53
Exons	1677..2396		

Seq. No.	55605	Seq. ID	OJ000313_27.0418.C7
Gene No.	116483	Strand	-
Start	3665	End	4562
Name	OJ000313_27.0418.C7.o2.gs	Method	GENSCAN
Start	3665	End	4562
GI	none	Score	.54
Exons	3665..3750, 3960..4144, 4504..4562		

Seq. No.	55606	Seq. ID	OJ000313_27.0418.C10
Gene No.	116484	Strand	+
Start	693	End	3554
Name	OJ000313_27.0418.C10.o1.np	Method	AAT/NAP
Start	693	End	3554
GI	7487607	Score	398
Exons	693..812, 1807..2003, 2097..2201, 2599..2838, 3112..3298, 3424..3554		
GI Descrip.	hypothetical protein T3F12.1 - Arabidopsis thaliana (fragment)		

Seq. No.	55606	Seq. ID	OJ000313_27.0418.C10
Gene No.	116484	Strand	+
Start	693	End	3554
Name	OJ000313_27.0418.C10.o1.gs	Method	GENSCAN
Start	1766	End	3357
GI	none	Score	.93
Exons	1766..1966, 2066..2195, 3112..3357		

Seq. No.	55606	Seq. ID	OJ000313_27.0418.C10
Gene No.	116484	Strand	+
Start	693	End	3554
Name	OJ000313_27.0418.C10.o1.tc	Method	TBLASTX:Cress
Start	1808	End	2008
GI	none	Score	197
Exons	1808..2008, 1824..2003		

Seq. No.	55606	Seq. ID	OJ000313_27.0418.C10
Gene No.	116484	Strand	+
Start	693	End	3554
Name	OJ000313_27.0418.C10.o1.tm	Method	TBLASTX:Maize
Start	1808	End	2732
GI	none	Score	204
Exons	1808..2005, 1824..2003, 1828..2004, 1891..2007, 2090..2209, 2094..2195, 2601..2732		

Seq. No.	55606	Seq. ID	OJ000313_27.0418.C10
Gene No.	116484	Strand	+
Start	693	End	3554
Name	OJ000313_27.0418.C10.o1.tw	Method	TBLASTX:Wheat
Start	1817	End	2679
GI	none	Score	245

Exons 1817..2008, 1824..2003, 1825..2022, 2089..2151, 2094..2195,
2597..2674, 2598..2663, 2599..2679, 2600..2674

Seq. No.	55606	Seq. ID	OJ000313_27.0418.C10
Gene No.	116484	Strand	+
Start	693	End	3554
Name	OJ000313_27.0418.C10.o2.tm	Method	TBLASTX:Maize
Start	2749	End	3315
GI	none	Score	78
Exons	2749..2844, 3109..3315, 3109..3285		

Seq. No.	55607	Seq. ID	OJ000313_27.0418.C11
Gene No.	116485	Strand	+
Start	1	End	5747
Name	OJ000313_27.0418.C11.o1.np	Method	AAT/NAP
Start	1	End	4089
GI	5852098	Score	259
Exons	1..32, 3143..3215, 3911..4089		
GI Descrip.	(AL117264) zwh21.1 [Oryza sativa]		

Seq. No.	55607	Seq. ID	OJ000313_27.0418.C11
Gene No.	116485	Strand	+
Start	1	End	5747
Name	OJ000313_27.0418.C11.o1.gs	Method	GENSCAN
Start	675	End	5747
GI	none	Score	.45
Exons	675..681, 2326..2643, 3926..4091, 5684..5747		

Seq. No.	55607	Seq. ID	OJ000313_27.0418.C11
Gene No.	116485	Strand	+
Start	1	End	5747
Name	OJ000313_27.0418.C11.o2.gp	Method	AAT/GAP
Start	3237	End	3655
GI	none	Score	817
Exons	3237..3655		

Seq. No.	55607	Seq. ID	OJ000313_27.0418.C11
Gene No.	116485	Strand	+
Start	1	End	5747
Name	OJ000313_27.0418.C11.o3.gp	Method	AAT/GAP
Start	3932	End	4300
GI	uC-osflM202135a05a1	Score	494
Exons	3932..4091, 4186..4300		
GI Descrip.	'5679844/emb CAB51837.1 6.0e-18 (AJ243961) 11332.8 [Oryza sativa]'		

Seq. No.	55607	Seq. ID	OJ000313_27.0418.C11
Gene No.	116486	Strand	-
Start	6171	End	6307
Name	OJ000313_27.0418.C11.o1.tm	Method	TBLASTX:Maize
Start	3146	End	4087
GI	none	Score	81
Exons	3146..3202, 3149..3202, 3913..4083, 3913..4080, 3914..4081, 3915..4082, 3917..4087		

Seq. No.	55607	Seq. ID	OJ000313_27.0418.C11
Gene No.	116486	Strand	-

Start	6171	End	6307
Name	OJ000313_27.0418.C11.o2.gs	Method	GENSCAN
Start	6171	End	6307
GI	none	Score	.52
Exons	6171..6307		

Seq. No.	55608	Seq. ID	OJ000313_27.0418.C15
Gene No.	116487	Strand	+
Start	546	End	1207
Name	OJ000313_27.0418.C15.o1.gs	Method	GENSCAN
Start	546	End	1207
GI	none	Score	.86
Exons	546..679, 1187..1207		

Seq. No.	55608	Seq. ID	OJ000313_27.0418.C15
Gene No.	116488	Strand	+
Start	6357	End	11548
Name	OJ000313_27.0418.C15.o1.np	Method	AAT/NAP
Start	6357	End	11548
GI	5852180	Score	564
Exons	6357..6458, 9932..9988, 10968..11085, 11137..11548		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	55608	Seq. ID	OJ000313_27.0418.C15
Gene No.	116489	Strand	-
Start	3901	End	8579
Name	OJ000313_27.0418.C15.o2.gs	Method	GENSCAN
Start	3901	End	8579
GI	none	Score	.67
Exons	3901..4001, 4079..4340, 4502..4674, 6703..6882, 7361..8579		

Seq. No.	55608	Seq. ID	OJ000313_27.0418.C15
Gene No.	116490	Strand	-
Start	9836	End	10218
Name	OJ000313_27.0418.C15.o2.gp	Method	AAT/GAP
Start	9836	End	10218
GI	uC-osflcyp033a04b1	Score	672
Exons	9836..10218		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	55608	Seq. ID	OJ000313_27.0418.C15
Gene No.	116491	Strand	-
Start	11025	End	11666
Name	OJ000313_27.0418.C15.o4.gs	Method	GENSCAN
Start	11025	End	11666
GI	none	Score	.41
Exons	11025..11666		

Seq. No.	55609	Seq. ID	OJ000313_27.0418.C16
Gene No.	116492	Strand	+
Start	73	End	2109
Name	OJ000313_27.0418.C16.o1.gs	Method	GENSCAN
Start	73	End	2109
GI	none	Score	.56
Exons	73..140, 878..1011, 1957..2109		

Seq. No.	55609	Seq. ID	OJ000313_27.0418.C16
Gene No.	116493	Strand	+
Start	3084	End	5416
Name	OJ000313_27.0418.C16.o2.gs	Method	GENSCAN
Start	3084	End	5416
GI	none	Score	.76
Exons	3084..3421, 4911..4934, 5197..5416		

Seq. No.	55609	Seq. ID	OJ000313_27.0418.C16
Gene No.	116494	Strand	+
Start	11490	End	14072
Name	OJ000313_27.0418.C16.o2.np	Method	AAT/NAP
Start	11490	End	12698
GI	7488857	Score	260
Exons	11490..11593, 12229..12698		
GI Descrip.	hypothetical protein - fava bean (fragment) gi 2522230 dbj BAA22788.1 (AB007467) retrotransposon-like gene; the first amino acid was determined to be leucine [Vicia faba]		

Seq. No.	55609	Seq. ID	OJ000313_27.0418.C16
Gene No.	116494	Strand	+
Start	11490	End	14072
Name	OJ000313_27.0418.C16.o5.gs	Method	GENSCAN
Start	12227	End	14072
GI	none	Score	.54
Exons	12227..12685, 12817..13086, 13715..14072		

Seq. No.	55609	Seq. ID	OJ000313_27.0418.C16
Gene No.	116495	Strand	-
Start	1647	End	2030
Name	OJ000313_27.0418.C16.o1.gp	Method	AAT/GAP
Start	1647	End	2030
GI	uC-osflcyp033a04b1	Score	701
Exons	1647..2030		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	55609	Seq. ID	OJ000313_27.0418.C16
Gene No.	116496	Strand	-
Start	9775	End	11687
Name	OJ000313_27.0418.C16.o4.gs	Method	GENSCAN
Start	9775	End	11687
GI	none	Score	.49
Exons	9775..9879, 10343..10523, 10610..10905, 11009..11185, 11637..11687		

Seq. No.	55609	Seq. ID	OJ000313_27.0418.C16
Gene No.	116496	Strand	-
Start	9775	End	11687
Name	OJ000313_27.0418.C16.o1.np	Method	AAT/NAP
Start	9778	End	11516
GI	6907087	Score	924
Exons	9778..9879, 10421..11093, 11139..11516		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55610	Seq. ID	OJ000313_27.0418.C18
Gene No.	116497	Strand	+
Start	665	End	2145
Name	OJ000313_27.0418.C18.o1.gs	Method	GENSCAN
Start	665	End	2145
GI	none	Score	.64
Exons	665..737, 1234..1535, 1783..2145		

Seq. No.	55610	Seq. ID	OJ000313_27.0418.C18
Gene No.	116498	Strand	-
Start	2017	End	2651
Name	OJ000313_27.0418.C18.o1.ts	Method	TBLASTX:Soybean
Start	2011	End	2256
GI	none	Score	45
Exons	2011..2256, 2015..2044, 2084..2254, 2089..2256		

Seq. No.	55610	Seq. ID	OJ000313_27.0418.C18
Gene No.	116498	Strand	-
Start	2017	End	2651
Name	OJ000313_27.0418.C18.o1.np	Method	AAT/NAP
Start	2017	End	2651
GI	4544372	Score	120
Exons	2017..2341, 2623..2651		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	55611	Seq. ID	OJ000313_27.0418.C19
Gene No.	116499	Strand	+
Start	223	End	651
Name	OJ000313_27.0418.C19.o1.gs	Method	GENSCAN
Start	223	End	651
GI	none	Score	.99
Exons	223..651		

Seq. No.	55612	Seq. ID	OJ000313_27.0418.C20
Gene No.	116500	Strand	+
Start	148	End	656
Name	OJ000313_27.0418.C20.o1.gs	Method	GENSCAN
Start	148	End	656
GI	none	Score	.67
Exons	148..212, 308..379, 412..571, 576..656		

Seq. No.	55613	Seq. ID	OJ000313_27.0418.C21
Gene No.	116501	Strand	+
Start	664	End	843
Name	OJ000313_27.0418.C21.o1.gs	Method	GENSCAN
Start	664	End	843
GI	none	Score	.7
Exons	664..843		

Seq. No.	55614	Seq. ID	OJ000313_27.0418.C22
Gene No.	116502	Strand	+
Start	380	End	2435
Name	OJ000313_27.0418.C22.o1.np	Method	AAT/NAP
Start	380	End	2435
GI	5852175	Score	93
Exons	380..486, 1117..1149, 2405..2435		

GI Descrip. (AL117265) zhb0005.1 [Oryza sativa]

Seq. No.	55614	Seq. ID	OJ000313_27.0418.C22
Gene No.	116503	Strand	-
Start	1	End	2114
Name	OJ000313_27.0418.C22.o2.np	Method	AAT/NAP
Start	1	End	2114
GI	4544372	Score	327
Exons	1..60, 1280..2114		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	55614	Seq. ID	OJ000313_27.0418.C22
Gene No.	116503	Strand	-
Start	1	End	2114
Name	OJ000313_27.0418.C22.o1.tw	Method	TBLASTX:Wheat
Start	1441	End	1791
GI	none	Score	59
Exons	1441..1629, 1615..1719, 1756..1791		

Seq. No.	55614	Seq. ID	OJ000313_27.0418.C22
Gene No.	116503	Strand	-
Start	1	End	2114
Name	OJ000313_27.0418.C22.o1.ts	Method	TBLASTX:Soybean
Start	1501	End	1899
GI	none	Score	231
Exons	1501..1899		

Seq. No.	55614	Seq. ID	OJ000313_27.0418.C22
Gene No.	116503	Strand	-
Start	1	End	2114
Name	OJ000313_27.0418.C22.o1.tm	Method	TBLASTX:Maize
Start	1522	End	1902
GI	none	Score	94
Exons	1522..1746, 1744..1902		

Seq. No.	55615	Seq. ID	OJ000313_27.0418.C23
Gene No.	116504	Strand	+
Start	5215	End	5442
Name	OJ000313_27.0418.C23.o2.np	Method	AAT/NAP
Start	5215	End	5442
GI	4680186	Score	118
Exons	5215..5442		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	55615	Seq. ID	OJ000313_27.0418.C23
Gene No.	116505	Strand	-
Start	337	End	2291
Name	OJ000313_27.0418.C23.o1.np	Method	AAT/NAP
Start	337	End	2291
GI	4680186	Score	191
Exons	337..521, 2263..2291		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	55615	Seq. ID	OJ000313_27.0418.C23
Gene No.	116506	Strand	-
Start	5838	End	6541

Name	OJ000313_27.0418.C23.o3.np	Method	AAT/NAP
Start	5838	End	6541
GI	6907087	Score	169
Exons	5838..5939, 6480..6541		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55616	Seq. ID	OJ000313_27.0418.C25
Gene No.	116507	Strand	+
Start	565	End	666
Name	OJ000313_27.0418.C25.o1.np	Method	AAT/NAP
Start	565	End	666
GI	6907087	Score	155
Exons	565..666		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55616	Seq. ID	OJ000313_27.0418.C25
Gene No.	116508	Strand	-
Start	559	End	665
Name	OJ000313_27.0418.C25.o2.gs	Method	GENSCAN
Start	559	End	665
GI	none	Score	.75
Exons	559..665		

Seq. No.	55617	Seq. ID	OJ000313_27.0418.C28
Gene No.	116509	Strand	+
Start	4457	End	4838
Name	OJ000313_27.0418.C28.o1.gp	Method	AAT/GAP
Start	4457	End	4838
GI	uC-osflcyp033a04b1	Score	639
Exons	4457..4838		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	55617	Seq. ID	OJ000313_27.0418.C28
Gene No.	116510	Strand	-
Start	1	End	3535
Name	OJ000313_27.0418.C28.o1.np	Method	AAT/NAP
Start	1	End	793
GI	7248394	Score	549
Exons	1..793		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	55617	Seq. ID	OJ000313_27.0418.C28
Gene No.	116510	Strand	-
Start	1	End	3535
Name	OJ000313_27.0418.C28.o1.gs	Method	GENSCAN
Start	134	End	3496
GI	none	Score	.52
Exons	134..759, 1203..1482, 1858..2235, 3146..3496		

Seq. No.	55617	Seq. ID	OJ000313_27.0418.C28
Gene No.	116510	Strand	-
Start	1	End	3535
Name	OJ000313_27.0418.C28.o2.np	Method	AAT/NAP
Start	3101	End	3535
GI	4680185	Score	441
Exons	3101..3535		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	55617	Seq. ID	OJ000313_27.0418.C28
Gene No.	116511	Strand	-
Start	6784	End	7333
Name	OJ000313_27.0418.C28.o1.ts	Method	TBLASTX:Soybean
Start	269	End	667
GI	none	Score	195
Exons	269..667		

Seq. No.	55617	Seq. ID	OJ000313_27.0418.C28
Gene No.	116511	Strand	-
Start	6784	End	7333
Name	OJ000313_27.0418.C28.o3.np	Method	AAT/NAP
Start	4390	End	7333
GI	4680186	Score	369
Exons	4390..4590, 5430..5491, 7248..7333		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	55617	Seq. ID	OJ000313_27.0418.C28
Gene No.	116511	Strand	-
Start	6784	End	7333
Name	OJ000313_27.0418.C28.o5.np	Method	AAT/NAP
Start	5775	End	7333
GI	7340868	Score	41
Exons	5775..5817, 6971..7333		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	55617	Seq. ID	OJ000313_27.0418.C28
Gene No.	116511	Strand	-
Start	6784	End	7333
Name	OJ000313_27.0418.C28.o4.np	Method	AAT/NAP
Start	6215	End	6942
GI	7248393	Score	424
Exons	6215..6562, 6638..6942		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	55617	Seq. ID	OJ000313_27.0418.C28
Gene No.	116511	Strand	-
Start	6784	End	7333
Name	OJ000313_27.0418.C28.o2.gs	Method	GENSCAN
Start	6784	End	6986
GI	none	Score	.67
Exons	6784..6986		

Seq. No.	55618	Seq. ID	OJ000313_27.0418.C29
Gene No.	116512	Strand	+
Start	776	End	1721
Name	OJ000313_27.0418.C29.o1.gs	Method	GENSCAN

Start 776
GI none
Exons 776..902, 1611..1721

End 1721
Score .61

Seq. No. 55618
Gene No. 116513
Start 2378
Name OJ000313_27.0418.C29.o2.gs
Start 2378
GI none
Exons 2378..2507, 2713..2875, 4567..4638, 5273..5347, 5940..6061, 6183..6244

Seq. ID OJ000313_27.0418.C29
Strand +
End 6491
Method GENSCAN
End 6244
Score .62

Seq. No. 55618
Gene No. 116513
Start 2378
Name OJ000313_27.0418.C29.o1.np
Start 2646
GI 6056374
Exons 2646..2875, 3210..3281, 3448..3567, 3868..3931, 4230..4301, 4415..4491, 4572..4638, 4955..5026, 5077..5193, 6415..6491

Seq. ID OJ000313_27.0418.C29
Strand +
End 6491
Method AAT/NAP
End 6491
Score 322

GI Descrip. (AC009894) Similar to serine/threonine kinases [Arabidopsis thaliana]

Seq. No. 55619
Gene No. 116514
Start 2654
Name OJ000313_27.0418.C31.o1.np
Start 2654
GI 7340881
Exons 2654..2740, 2887..3028
GI Descrip. (AP001551) hypothetical protein [Oryza sativa]

Seq. ID OJ000313_27.0418.C31
Strand +
End 3028
Method AAT/NAP
End 3028
Score 166

Seq. No. 55620
Gene No. 116515
Start 369
Name OJ000313_27.0418.C32.o1.np
Start 369
GI 5852175
Exons 369..475
GI Descrip. (AL117265) zhb0005.1 [Oryza sativa]

Seq. ID OJ000313_27.0418.C32
Strand +
End 475
Method AAT/NAP
End 475
Score 105

Seq. No. 55621
Gene No. 116516
Start 1
Name OJ000313_27.0418.C33.o1.np
Start 1
GI 4680179
Exons 1..95, 639..2793
GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. ID OJ000313_27.0418.C33
Strand +
End 5128
Method AAT/NAP
End 2793
Score 2978

Seq. No. 55621
Gene No. 116516
Start 1
Name OJ000313_27.0418.C33.o2.np
Start 1
GI 6063554

Seq. ID OJ000313_27.0418.C33
Strand +
End 5128
Method AAT/NAP
End 5128
Score 212

Exons 1..79, 3570..3773, 3858..3906, 4956..5128
 GI Descrip. (AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464)
 correspond to a region of the predicted gene.; hypothetical
 protein [Oryza sativa]

Seq. No.	55621	Seq. ID	OJ000313_27.0418.C33
Gene No.	116516	Strand	+
Start	1	End	5128
Name	OJ000313_27.0418.C33.o1.gs	Method	GENSCAN
Start	916	End	2796
GI	none	Score	.64
Exons	916..2796		

Sèq. No.	55621	Seq. ID	OJ000313_27.0418.C33
Gene No.	116517	Strand	+
Start	5829	End	8555
Name	OJ000313_27.0418.C33.o2.ts	Method	TBLASTX:Soybean
Start	403	End	1044
GI	none	Score	192
Exons	403..630, 796..1044		

Seq. No.	55621	Seq. ID	OJ000313_27.0418.C33
Gene No.	116517	Strand	+
Start	5829	End	8555
Name	OJ000313_27.0418.C33.o3.tw	Method	TBLASTX:Wheat
Start	405	End	5848
GI	none	Score	490
Exons	405..767, 406..765, 790..1215, 792..1208, 865..1215, 5807..5848		

Seq. No.	55621	Seq. ID	OJ000313_27.0418.C33
Gene No.	116517	Strand	+
Start	5829	End	8555
Name	OJ000313_27.0418.C33.o2.tm	Method	TBLASTX:Maize
Start	448	End	1215
GI	none	Score	409
Exons	448..765, 453..707, 460..765, 862..1215, 867..1208		

Seq. No.	55621	Seq. ID	OJ000313_27.0418.C33
Gene No.	116517	Strand	+
Start	5829	End	8555
Name	OJ000313_27.0418.C33.o2.tw	Method	TBLASTX:Wheat
Start	1243	End	6415
GI	none	Score	602
Exons	1243..1782, 1425..1778, 5879..6415, 5881..6414		

Seq. No.	55621	Seq. ID	OJ000313_27.0418.C33
Gene No.	116517	Strand	+
Start	5829	End	8555
Name	OJ000313_27.0418.C33.o1.tc	Method	TBLASTX:Cress
Start	1480	End	6439
GI	none	Score	89
Exons	1480..1662, 1663..1806, 1674..1805, 6113..6289, 6296..6439, 6298..6438		

Seq. No.	55621	Seq. ID	OJ000313_27.0418.C33
Gene No.	116517	Strand	+
Start	5829	End	8555

Name	OJ000313_27.0418.C33.o1.ts	Method	TBLASTX:Soybean
Start	1570	End	6464
GI	none	Score	281
Exons	1570..1830, 1581..1829, 1582..1830, 6203..6463, 6205..6462, 6246..6464		

Seq. No.	55621	Seq. ID	OJ000313_27.0418.C33
Gene No.	116517	Strand	+
Start	5829	End	8555
Name	OJ000313_27.0418.C33.o3.tm	Method	TBLASTX:Maize
Start	1628	End	6553
GI	none	Score	106
Exons	1628..1816, 1629..1916, 1630..1920, 1630..1917, 6261..6533, 6262..6549, 6263..6553		

Seq. No.	55621	Seq. ID	OJ000313_27.0418.C33
Gene No.	116517	Strand	+
Start	5829	End	8555
Name	OJ000313_27.0418.C33.o1.tw	Method	TBLASTX:Wheat
Start	1789	End	7048
GI	none	Score	724
Exons	1789..2415, 1845..2294, 1852..2373, 2355..2414, 6422..7048, 6424..7047		

Seq. No.	55621	Seq. ID	OJ000313_27.0418.C33
Gene No.	116517	Strand	+
Start	5829	End	8555
Name	OJ000313_27.0418.C33.o1.tm	Method	TBLASTX:Maize
Start	1968	End	7186
GI	none	Score	229
Exons	1968..2123, 1969..2130, 1983..2132, 2127..2291, 2128..2553, 2248..2532, 2355..2552, 6602..6763, 6609..6752, 6610..6756, 6760..7062, 6761..7186		

Seq. No.	55621	Seq. ID	OJ000313_27.0418.C33
Gene No.	116517	Strand	+
Start	5829	End	8555
Name	OJ000313_27.0418.C33.o4.tw	Method	TBLASTX:Wheat
Start	2415	End	7381
GI	none	Score	312
Exons	2415..2684, 2416..2748, 2566..2697, 7048..7119, 7049..7381, 7052..7156, 7141..7188		

Seq. No.	55621	Seq. ID	OJ000313_27.0418.C33
Gene No.	116517	Strand	+
Start	5829	End	8555
Name	OJ000313_27.0418.C33.o4.tm	Method	TBLASTX:Maize
Start	2557	End	7436
GI	none	Score	126
Exons	2557..2769, 2583..2678, 2771..2803, 2771..2803, 7190..7402, 7286..7402, 7386..7436, 7395..7436		

Seq. No.	55621	Seq. ID	OJ000313_27.0418.C33
Gene No.	116517	Strand	+
Start	5829	End	8555
Name	OJ000313_27.0418.C33.o3.np	Method	AAT/NAP
Start	5829	End	7426

GI	6983860	Score	2485
Exons	5829..7426		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	55621	Seq. ID	OJ000313_27.0418.C33
Gene No.	116517	Strand	+
Start	5829	End	8555
Name	OJ000313_27.0418.C33.o4.np	Method	AAT/NAP
Start	6164	End	8555
GI	6063554	Score	75
Exons	6164..6193, 7856..8012, 8131..8312, 8516..8555		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116518	Strand	+
Start	3186	End	8748
Name	OJ000313_27.0418.C34.o3.np	Method	AAT/NAP
Start	3186	End	8748
GI	5852180	Score	568
Exons	3186..3228, 7068..7130, 8114..8237, 8288..8748		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116519	Strand	-
Start	575	End	5030
Name	OJ000313_27.0418.C34.o1.np	Method	AAT/NAP
Start	575	End	5030
GI	4680179	Score	5253
Exons	575..3917, 3951..5030		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116520	Strand	-
Start	5283	End	7360
Name	OJ000313_27.0418.C34.o2.gs	Method	GENSCAN
Start	5283	End	7236
GI	none	Score	.78
Exons	5283..6092, 7192..7236		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116520	Strand	-
Start	5283	End	7360
Name	OJ000313_27.0418.C34.o1.gp	Method	AAT/GAP
Start	6979	End	7360
GI	uC-osflcyp033a04b1	Score	687
Exons	6979..7360		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o6.tw	Method	TBLASTX:Wheat
Start	620	End	953

GI	none	Score	128
Exons	620..952, 641..949, 684..953		
Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o1.tm	Method	TBLASTX:Maize
Start	800	End	1345
GI	none	Score	245
Exons	800..1240, 816..1238, 1238..1345, 1257..1334		
Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o2.tw	Method	TBLASTX:Wheat
Start	953	End	1520
GI	none	Score	237
Exons	953..1345, 954..1349, 956..1378, 1344..1520		
Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o4.tm	Method	TBLASTX:Maize
Start	1389	End	1681
GI	none	Score	206
Exons	1389..1679, 1393..1680, 1520..1681		
Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o2.ts	Method	TBLASTX:Soybean
Start	1479	End	1739
GI	none	Score	148
Exons	1479..1739, 1480..1734		
Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o1.tc	Method	TBLASTX:Cress
Start	1503	End	1820
GI	none	Score	85
Exons	1503..1646, 1504..1644, 1647..1820		
Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o1.tw	Method	TBLASTX:Wheat
Start	1527	End	2105
GI	none	Score	349
Exons	1527..2105, 1528..2094		
Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o2.tm	Method	TBLASTX:Maize
Start	2085	End	2448
GI	none	Score	164

Exons 2085..2447, 2094..2447, 2098..2448

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o3.tw	Method	TBLASTX:Wheat
Start	2106	End	2519
GI	none	Score	348
Exons	2106..2519, 2107..2487		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o3.ts	Method	TBLASTX:Soybean
Start	2268	End	2513
GI	none	Score	94
Exons	2268..2513, 2269..2496		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o3.tm	Method	TBLASTX:Maize
Start	2484	End	2984
GI	none	Score	50
Exons	2484..2798, 2527..2577, 2605..2658, 2805..2984, 2830..2976		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o5.tw	Method	TBLASTX:Wheat
Start	2520	End	2822
GI	none	Score	181
Exons	2520..2822, 2526..2819, 2536..2820		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o1.ts	Method	TBLASTX:Soybean
Start	2535	End	2930
GI	none	Score	199
Exons	2535..2894, 2536..2826, 2854..2892, 2898..2930, 2899..2928		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o4.tw	Method	TBLASTX:Wheat
Start	2871	End	3357
GI	none	Score	258
Exons	2871..3248, 2914..3357, 3303..3353		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o5.tm	Method	TBLASTX:Maize
Start	3052	End	3342
GI	none	Score	185
Exons	3052..3342, 3054..3341		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o8.tw	Method	TBLASTX:Wheat
Start	3453	End	3890
GI	none	Score	68
Exons	3453..3494, 3522..3635, 3523..3636, 3681..3890, 3682..3834		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o7.tm	Method	TBLASTX:Maize
Start	3573	End	3926
GI	none	Score	188
Exons	3573..3926		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o9.tw	Method	TBLASTX:Wheat
Start	4209	End	4439
GI	none	Score	175
Exons	4209..4439		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o6.tm	Method	TBLASTX:Maize
Start	4254	End	4559
GI	none	Score	86
Exons	4254..4559, 4429..4545		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o7.tw	Method	TBLASTX:Wheat
Start	4440	End	4802
GI	none	Score	145
Exons	4440..4802, 4441..4800		

Seq. No.	55622	Seq. ID	OJ000313_27.0418.C34
Gene No.	116521	Strand	-
Start	8201	End	8637
Name	OJ000313_27.0418.C34.o3.gs	Method	GENSCAN
Start	8201	End	8637
GI	none	Score	.67
Exons	8201..8637		

Seq. No.	55623	Seq. ID	OJ000313_27.0418.C35
Gene No.	116522	Strand	+
Start	1	End	1422
Name	OJ000313_27.0418.C35.o1.np	Method	AAT/NAP
Start	1	End	1422
GI	6063554	Score	130
Exons	1..61, 201..305, 1252..1422		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464)		

correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	55623	Seq. ID	OJ000313_27.0418.C35
Gene No.	116522	Strand	+
Start	1	End	1422
Name	OJ000313_27.0418.C35.o1.gs	Method	GENSCAN
Start	166	End	709
GI	none	Score	.87
Exons	166..289, 612..709		

Seq. No.	55623	Seq. ID	OJ000313_27.0418.C35
Gene No.	116523	Strand	+
Start	4036	End	5251
Name	OJ000313_27.0418.C35.o3.gs	Method	GENSCAN
Start	4036	End	5251
GI	none	Score	.73
Exons	4036..4108, 4361..4422, 4784..4954, 5090..5251		

Seq. No.	55623	Seq. ID	OJ000313_27.0418.C35
Gene No.	116524	Strand	-
Start	1	End	5634
Name	OJ000313_27.0418.C35.o2.np	Method	AAT/NAP
Start	1	End	5634
GI	7248394	Score	340
Exons	1..16, 2710..2877, 3145..3355, 5499..5634		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	55623	Seq. ID	OJ000313_27.0418.C35
Gene No.	116524	Strand	-
Start	1	End	5634
Name	OJ000313_27.0418.C35.o2.gs	Method	GENSCAN
Start	2145	End	3313
GI	none	Score	.71
Exons	2145..2557, 2815..3091, 3107..3313		

Seq. No.	55623	Seq. ID	OJ000313_27.0418.C35
Gene No.	116524	Strand	-
Start	1	End	5634
Name	OJ000313_27.0418.C35.o2.tw	Method	TBLASTX:Wheat
Start	2313	End	2696
GI	none	Score	63
Exons	2313..2582, 2622..2696		

Seq. No.	55623	Seq. ID	OJ000313_27.0418.C35
Gene No.	116524	Strand	-
Start	1	End	5634
Name	OJ000313_27.0418.C35.o1.ts	Method	TBLASTX:Soybean
Start	2346	End	2818
GI	none	Score	90
Exons	2346..2597, 2431..2598, 2605..2709, 2619..2699, 2786..2818		

Seq. No.	55623	Seq. ID	OJ000313_27.0418.C35
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Gene No.	116524	Strand	-
Start	1	End	5634
Name	OJ000313_27.0418.C35.o1.tm	Method	TBLASTX:Maize
Start	2709	End	2959
GI	none	Score	233
Exons	2709..2954, 2711..2959		
Seq. No.	55623	Seq. ID	OJ000313_27.0418.C35
Gene No.	116524	Strand	-
Start	1	End	5634
Name	OJ000313_27.0418.C35.o1.tw	Method	TBLASTX:Wheat
Start	2711	End	3013
GI	none	Score	113
Exons	2711..2962, 2714..2953, 2721..2954, 2957..3013, 2967..3008		
Seq. No.	55623	Seq. ID	OJ000313_27.0418.C35
Gene No.	116524	Strand	-
Start	1	End	5634
Name	OJ000313_27.0418.C35.o2.ts	Method	TBLASTX:Soybean
Start	2825	End	3175
GI	none	Score	80
Exons	2825..2944, 2951..3175, 2985..3164		
Seq. No.	55623	Seq. ID	OJ000313_27.0418.C35
Gene No.	116524	Strand	-
Start	1	End	5634
Name	OJ000313_27.0418.C35.o3.np	Method	AAT/NAP
Start	3547	End	4542
GI	5042463	Score	107
Exons	3547..3630, 3682..3818, 4337..4542		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		
Seq. No.	55624	Seq. ID	OJ000313_27.0418.C36
Gene No.	116525	Strand	+
Start	1	End	9417
Name	OJ000313_27.0418.C36.o1.np	Method	AAT/NAP
Start	1	End	5012
GI	4680179	Score	832
Exons	1..69, 763..1561, 4994..5012		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	55624	Seq. ID	OJ000313_27.0418.C36
Gene No.	116525	Strand	+
Start	1	End	9417
Name	OJ000313_27.0418.C36.o1.gs	Method	GENSCAN
Start	80	End	7979
GI	none	Score	.62
Exons	80..156, 1101..1273, 2453..2498, 3195..3521, 3756..3845, 5050..5141, 5186..5323, 7200..7259, 7392..7441, 7555..7591, 7762..7979		
Seq. No.	55624	Seq. ID	OJ000313_27.0418.C36
Gene No.	116525	Strand	+
Start	1	End	9417
Name	OJ000313_27.0418.C36.o1.gp	Method	AAT/GAP
Start	2890	End	2977
GI	1631463	Score	80

Exons 2890..2977
 GI Descrip. 4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes

Seq. No.	55624	Seq. ID	OJ000313_27.0418.C36
Gene No.	116525	Strand	+
Start	1	End	9417
Name	OJ000313_27.0418.C36.o3.np	Method	AAT/NAP
Start	4590	End	9417
GI	7340881	Score	457
Exons	4590..4677, 4834..4957, 5050..5363, 6750..6883, 6989..7020, 9396..9417		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	55624	Seq. ID	OJ000313_27.0418.C36
Gene No.	116526	Strand	-
Start	359	End	2420
Name	OJ000313_27.0418.C36.o2.np	Method	AAT/NAP
Start	359	End	2420
GI	6721561	Score	134
Exons	359..376, 2313..2420		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1 (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55624	Seq. ID	OJ000313_27.0418.C36
Gene No.	116526	Strand	-
Start	359	End	2420
Name	OJ000313_27.0418.C36.o2.tw	Method	TBLASTX:Wheat
Start	820	End	1173
GI	none	Score	239
Exons	820..1173, 996..1130		

Seq. No.	55624	Seq. ID	OJ000313_27.0418.C36
Gene No.	116526	Strand	-
Start	359	End	2420
Name	OJ000313_27.0418.C36.o1.tm	Method	TBLASTX:Maize
Start	1320	End	1568
GI	none	Score	262
Exons	1320..1568, 1328..1561		

Seq. No.	55624	Seq. ID	OJ000313_27.0418.C36
Gene No.	116526	Strand	-
Start	359	End	2420
Name	OJ000313_27.0418.C36.o1.tw	Method	TBLASTX:Wheat
Start	1325	End	1601
GI	none	Score	247
Exons	1325..1561, 1338..1568, 1416..1601		

Seq. No.	55625	Seq. ID	OJ000313_27.0418.C37
Gene No.	116527	Strand	+
Start	136	End	726
Name	OJ000313_27.0418.C37.o1.gs	Method	GENSCAN
Start	136	End	726

GI	none	Score	.66
Exons	136..726		
Seq. No.	55625	Seq. ID	OJ000313_27.0418.C37
Gene No.	116528	Strand	-
Start	1	End	958
Name	OJ000313_27.0418.C37.ol.np	Method	AAT/NAP
Start	1	End	907
GI	6907087	Score	671
Exons	1..322, 531..907		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55625	Seq. ID	OJ000313_27.0418.C37
Gene No.	116528	Strand	-
Start	1	End	958
Name	OJ000313_27.0418.C37.ol.gp	Method	AAT/GAP
Start	518	End	958
GI	2428308	Score	578
Exons	518..958		
GI Descrip.	4521194/dbj AB013613.1 AB013613 3.0e-14 Oryza sativa DNA, centromere sequence RCB11		

Seq. No.	55626	Seq. ID	OJ000403_29.0424.C1
Gene No.	116529	Strand	+
Start	1	End	1466
Name	OJ000403_29.0424.C1.ol.gp	Method	AAT/GAP
Start	1	End	1466
GI	3073_1.R1084	Score	2899
Exons	1..1466		
GI Descrip.	'133936/sp P12146 RR3_ORYSA 5.0e-95 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir_R3RZ3 ribosomal protein S3 - rice chloroplast >gi_12025_emb_CAA33934_(X15901) ribosomal protein S3 [Oryza sativa] >gi_226646_prf_1603356BW ribosomal protein S3 [Oryza sativa]'		

Seq. No.	55626	Seq. ID	OJ000403_29.0424.C1
Gene No.	116530	Strand	-
Start	1	End	513
Name	OJ000403_29.0424.C1.ol.np	Method	AAT/NAP
Start	1	End	513
GI	133936	Score	860
Exons	1..513		
GI Descrip.	CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 gi 70867 pir R3RZ3 ribosomal protein S3 - rice chloroplast gi 12025 emb CAA33934 (X15901) ribosomal protein S3 [Oryza sativa] gi 226646 prf 1603356BW ribosomal protein S3 [Oryza sativa]		

Seq. No.	55626	Seq. ID	OJ000403_29.0424.C1
Gene No.	116531	Strand	-
Start	567	End	1366
Name	OJ000403_29.0424.C1.ol.gs	Method	GENSCAN
Start	567	End	1300
GI	none	Score	.83
Exons	567..992, 1172..1300		

Seq. No.	55626	Seq. ID	OJ000403_29.0424.C1
Gene No.	116531	Strand	-
Start	567	End	1366
Name	OJ000403_29.0424.C1.o2.np	Method	AAT/NAP
Start	570	End	1016
GI	132790	Score	754
Exons	570..1016		
GI Descrip.	CHLOROPLAST 50S RIBOSOMAL PROTEIN L22 gi 71290 pir R5RZ22 ribosomal protein L22 - rice chloroplast gi 12026 emb CAA33935 (X15901) ribosomal protein L22 [Oryza sativa] gi 226647 prf 1603356BX ribosomal protein L22 [Oryza sativa]		

Seq. No.	55626	Seq. ID	OJ000403_29.0424.C1
Gene No.	116531	Strand	-
Start	567	End	1366
Name	OJ000403_29.0424.C1.o3.np	Method	AAT/NAP
Start	1088	End	1366
GI	1213601	Score	484
Exons	1088..1366		
GI Descrip.	(X15901) ribosomal protein S19 [Oryza sativa] gi 226648 prf 1603356BY ribosomal protein S19 [Oryza sativa]		

Seq. No.	55626	Seq. ID	OJ000403_29.0424.C1
Gene No.	116532	Strand	-
Start	1366	End	1572
Name	OJ000403_29.0424.C1.o1.tm	Method	TBLASTX:Maize
Start	1	End	1483
GI	none	Score	169
Exons	1..141, 1..204, 2..205, 3..188, 177..299, 179..301, 184..303, 194..301, 199..303, 256..534, 298..534, 513..974, 537..974, 966..1040, 967..1035, 983..1039, 985..1089, 1054..1272, 1073..1387, 1082..1351, 1089..1388, 1318..1392, 1324..1392, 1353..1442, 1379..1438, 1381..1482, 1394..1483		

Seq. No.	55626	Seq. ID	OJ000403_29.0424.C1
Gene No.	116532	Strand	-
Start	1366	End	1572
Name	OJ000403_29.0424.C1.o1.ts	Method	TBLASTX:Soybean
Start	1	End	1385
GI	none	Score	156
Exons	1..93, 2..178, 3..179, 172..300, 364..513, 364..513, 365..523, 423..518, 508..534, 1117..1269, 1121..1354, 1131..1355, 1359..1385, 1360..1383		

Seq. No.	55626	Seq. ID	OJ000403_29.0424.C1
Gene No.	116532	Strand	-
Start	1366	End	1572
Name	OJ000403_29.0424.C1.o2.tc	Method	TBLASTX:Cress
Start	1	End	399
GI	none	Score	47
Exons	1..75, 1..81, 2..178, 3..176, 193..300, 194..229, 205..279, 364..399		

Seq. No.	55626	Seq. ID	OJ000403_29.0424.C1
Gene No.	116532	Strand	-
Start	1366	End	1572
Name	OJ000403_29.0424.C1.o1.tw	Method	TBLASTX:Wheat

Start	204	End	968
GI	none	Score	137
Exons	204..299, 205..534, 205..534, 411..536, 517..552, 567..965, 573..968		

Seq. No.	55626	Seq. ID	OJ000403_29.0424.C1
Gene No.	116532	Strand	-
Start	1366	End	1572
Name	OJ000403_29.0424.C1.o1.tc	Method	TBLASTX:Cress
Start	400	End	914
GI	none	Score	129
Exons	400..510, 407..511, 414..512, 560..667, 582..878, 591..914		

Seq. No.	55626	Seq. ID	OJ000403_29.0424.C1
Gene No.	116532	Strand	-
Start	1366	End	1572
Name	OJ000403_29.0424.C1.o2.ts	Method	TBLASTX:Soybean
Start	589	End	917
GI	none	Score	137
Exons	589..879, 591..917, 603..884		

Seq. No.	55626	Seq. ID	OJ000403_29.0424.C1
Gene No.	116532	Strand	-
Start	1366	End	1572
Name	OJ000403_29.0424.C1.o3.tc	Method	TBLASTX:Cress
Start	1089	End	1336
GI	none	Score	39
Exons	1089..1115, 1121..1336, 1140..1274, 1148..1333		

Seq. No.	55626	Seq. ID	OJ000403_29.0424.C1
Gene No.	116532	Strand	-
Start	1366	End	1572
Name	OJ000403_29.0424.C1.o4.np	Method	AAT/NAP
Start	1366	End	1572
GI	82538	Score	362
Exons	1366..1572		
GI Descrip.	hypothetical 9K protein (rps19-rpl2 intergenic region) - rice chloroplast gi 12028 emb CAA33936 (X15901) ORF82 [Oryza sativa] gi 12074 emb CAA33926 (X15901) ORF82 [Oryza sativa] gi 226650 prf 1603356CA ORF 82 [Oryza sativa]		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116533	Strand	+
Start	122	End	1646
Name	OJ000403_29.0424.C2.o2.gp	Method	AAT/GAP
Start	122	End	1646
GI	3073_1.R1084	Score	612
Exons	122..167, 652..704, 1330..1646		
GI Descrip.	'133936/sp P12146 RR3_ORYSA 5.0e-95 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir_R3RZ3 ribosomal protein S3 - rice chloroplast >gi_12025_emb_CAA33934 (X15901) ribosomal protein S3 [Oryza sativa] >gi_226646_prf_1603356BW ribosomal protein S3 [Oryza sativa]'		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116533	Strand	+
Start	122	End	1646

Name	OJ000403_29.0424.C2.o1.gp	Method	AAT/GAP
Start	130	End	1234
GI	2291_1.R1084	Score	2145
Exons	130..1234		
GI Descrip.	'133936/sp P12146 RR3_ORYSA 3.0e-27 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir_R3RZ3 ribosomal protein S3 - rice chloroplast >gi_12025_emb_CAA33934_(X15901) ribosomal protein S3 [Oryza sativa] >gi_226646_prf_1603356BW ribosomal protein S3 [Oryza sativa]'		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116534	Strand	+
Start	4012	End	4539
Name	OJ000403_29.0424.C2.o3.gp	Method	AAT/GAP
Start	4012	End	4539
GI	21466_1.R1084	Score	959
Exons	4012..4539		
GI Descrip.	'6006355/dbj AP000559.1 AP000559 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11'		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o5.tm	Method	TBLASTX:Maize
Start	149	End	472
GI	none	Score	352
Exons	149..397, 150..398, 159..398, 160..453, 404..472, 416..448		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o3.tc	Method	TBLASTX:Cress
Start	188	End	1332
GI	none	Score	49
Exons	188..229, 196..216, 248..310, 266..310, 303..392, 304..393, 307..399, 520..546, 542..586, 695..757, 868..909, 879..926, 999..1241, 1006..1332, 1048..1332		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o2.tw	Method	TBLASTX:Wheat
Start	272	End	906
GI	none	Score	202
Exons	272..430, 273..422, 274..450, 395..445, 397..483, 398..484, 407..481, 469..582, 478..585, 483..590, 592..801, 598..711, 600..779, 659..829, 669..839, 683..829, 859..906, 873..905		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o4.tm	Method	TBLASTX:Maize
Start	513	End	918
GI	none	Score	59
Exons	513..542, 514..549, 514..546, 539..580, 539..586, 544..801, 544..714, 671..829, 672..779, 675..836, 683..817, 769..828, 837..917, 856..918, 859..918		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o6.np	Method	AAT/NAP
Start	599	End	5643
GI	6006374	Score	1807
Exons	599..650, 4515..5643		
GI Descrip.	(AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o3.tm	Method	TBLASTX:Maize
Start	976	End	1663
GI	none	Score	37
Exons	976..1008, 985..1332, 987..1205, 1007..1330, 1329..1565, 1330..1452, 1331..1531, 1498..1572, 1504..1572, 1533..1622, 1559..1618, 1561..1662, 1574..1663		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o1.np	Method	AAT/NAP
Start	1051	End	2770
GI	133936	Score	442
Exons	1051..1347, 2750..2770		
GI Descrip.	CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 gi 70867 pir R3RZ3 ribosomal protein S3 - rice chloroplast gi 12025 emb CAA33934 (X15901) ribosomal protein S3 [Oryza sativa] gi 226646 prf 1603356BW ribosomal protein S3 [Oryza sativa]		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o1.ts	Method	TBLASTX:Soybean
Start	1062	End	3029
GI	none	Score	111
Exons	1062..1202, 1063..1332, 1064..1330, 1254..1331, 1325..1534, 1326..1535, 1331..1528, 1539..1565, 1540..1563, 1760..2104, 1813..2103, 1814..2143, 1869..2108, 2049..2258, 2076..2273, 2176..2274, 2245..2391, 2259..2354, 2260..2358, 2350..2394, 2352..2393, 2353..2394, 2394..2573, 2396..2572, 2397..2624, 2578..2655, 2579..2656, 2634..3029, 2648..2941		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o2.np	Method	AAT/NAP
Start	1334	End	1549
GI	4388606	Score	273
Exons	1334..1549		
GI Descrip.	(Z71250) gtg start codon [Solanum nigrum]		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-

Start	599	End	7789
Name	OJ000403_29.0424.C2.o2.tc	Method	TBLASTX:Cress
Start	1436	End	2324
GI	none	Score	92
Exons	1436..1534, 1437..1535, 1439..1528, 1674..1724, 1675..1725, 1675..1752, 1676..1732, 1726..1755, 1726..1755, 1812..1979, 1814..1981, 1814..1984, 1869..1985, 1995..2243, 1999..2238, 2007..2324, 2176..2244		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o3.np	Method	AAT/NAP
Start	1546	End	1791
GI	82538	Score	439
Exons	1546..1791		
GI Descrip.	hypothetical 9K protein (rps19-rpl2 intergenic region) - rice chloroplast gi 12028 emb CAA33936 (X15901) ORF82 [Oryza sativa] gi 12074 emb CAA33926 (X15901) ORF82 [Oryza sativa] gi 226650 prf 1603356CA ORF 82 [Oryza sativa]		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o4.np	Method	AAT/NAP
Start	1811	End	3292
GI	1213600	Score	1411
Exons	1811..2238, 2902..3292		
GI Descrip.	(X15901) ribosomal protein L2 [Oryza sativa] gi 1213602 emb CAA33928 (X15901) ribosomal protein L2 [Oryza sativa] gi 226679 prf 1603356DG ribosomal protein L2 [Oryza sativa]		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o1.tm	Method	TBLASTX:Maize
Start	1845	End	2674
GI	none	Score	1254
Exons	1845..2666, 1846..2667, 1869..2669, 2176..2670, 2303..2674		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o3.tw	Method	TBLASTX:Wheat
Start	1985	End	2292
GI	none	Score	448
Exons	1985..2290, 1986..2291, 1986..2291, 2176..2292		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o1.tc	Method	TBLASTX:Cress
Start	2579	End	3680
GI	none	Score	251
Exons	2579..2749, 2580..2753, 2580..2774, 2656..2787, 2774..2890, 2775..2894, 2898..3107, 2900..3613, 2903..3613, 3600..3680		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o2.tm	Method	TBLASTX:Maize
Start	2898	End	3673
GI	none	Score	304
Exons	2898..3107, 2900..3148, 2903..3148, 2977..3150, 3084..3149, 3132..3656, 3143..3673, 3152..3673		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o2.ts	Method	TBLASTX:Soybean
Start	3030	End	3607
GI	none	Score	107
Exons	3030..3107, 3032..3607, 3035..3601		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o1.tw	Method	TBLASTX:Wheat
Start	3269	End	3645
GI	none	Score	598
Exons	3269..3643, 3269..3643, 3270..3644, 3343..3645		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o5.np	Method	AAT/NAP
Start	3314	End	3592
GI	132804	Score	491
Exons	3314..3592		
GI Descrip.	CHLOROPLAST 50S RIBOSOMAL PROTEIN L23 gi 71300 pir R5RZ23 ribosomal protein L23 - rice chloroplast gi 12031 emb CAA33938 (X15901) ribosomal protein L23 [Oryza sativa] gi 12071 emb CAA33923 (X15901).ribosomal protein L23 [Oryza sativa] gi 226652 prf 1603356CC ribosomal protein L23 [Oryza sativa]		

Seq. No.	55627	Seq. ID	OJ000403_29.0424.C2
Gene No.	116535	Strand	-
Start	599	End	7789
Name	OJ000403_29.0424.C2.o8.np	Method	AAT/NAP
Start	4946	End	7789
GI	6006374	Score	1941
Exons	4946..5045, 6610..7789		
GI Descrip.	(AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]		

Seq. No.	55628	Seq. ID	OJ000403_29.0424.C3
Gene No.	116536	Strand	-
Start	1	End	660
Name	OJ000403_29.0424.C3.o1.np	Method	AAT/NAP
Start	1	End	660
GI	6006374	Score	407
Exons	1..28, 355..660		

GI Descrip. (AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]

Seq. No.	55628	Seq. ID	OJ000403_29.0424.C3
Gene No.	116536	Strand	-
Start	1	End	660
Name	OJ000403_29.0424.C3.o1.gs	Method	GENSCAN
Start	60	End	650
GI	none	Score	.53
Exons	60..650		

Seq. No.	55629	Seq. ID	OJ000403_29.0424.C6
Gene No.	116537	Strand	+
Start	934	End	1268
Name	OJ000403_29.0424.C6.o2.np	Method	AAT/NAP
Start	934	End	1268
GI	6006374	Score	552
Exons	934..1268		

GI Descrip. (AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]

Seq. No.	55629	Seq. ID	OJ000403_29.0424.C6
Gene No.	116538	Strand	-
Start	1	End	285
Name	OJ000403_29.0424.C6.o1.gp	Method	AAT/GAP
Start	1	End	285
GI	21466 1.R1084	Score	508
Exons	1..285		
GI Descrip.	'6006355/dbj AP000559.1 AP000559 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11'		

Seq. No.	55629	Seq. ID	OJ000403_29.0424.C6
Gene No.	116538	Strand	-
Start	1	End	285
Name	OJ000403_29.0424.C6.o1.gs	Method	GENSCAN
Start	53	End	187
GI	none	Score	.6
Exons	53..187		

Seq. No.	55630	Seq. ID	OJ000403_29.0424.C7
Gene No.	116539	Strand	+
Start	1	End	1073
Name	OJ000403_29.0424.C7.o1.np	Method	AAT/NAP
Start	1	End	1073
GI	6006374	Score	1912
Exons	1..1073		
GI Descrip.	(AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]		

Seq. No.	55631	Seq. ID	OJ000403_29.0424.C8
Gene No.	116540	Strand	-
Start	234	End	759
Name	OJ000403_29.0424.C8.o1.gs	Method	GENSCAN
Start	234	End	759
GI	none	Score	.64
Exons	234..331, 627..759		

Seq. No.	55632	Seq. ID	OJ000403_29.0424.C9
Gene No.	116541	Strand	-
Start	64	End	6083
Name	OJ000403_29.0424.C9.o1.np	Method	AAT/NAP
Start	64	End	6083
GI	6714286	Score	735
Exons	64..139, 304..443, 611..736, 2885..2959, 3077..3282, 3437..3750, 4040..4246, 4937..5012, 5638..5716, 5807..5897, 5994..6083		
GI Descrip.	(AC013354) F15H18.5 [Arabidopsis thaliana]		

Seq. No.	55632	Seq. ID	OJ000403_29.0424.C9
Gene No.	116542	Strand	-
Start	9484	End	15412
Name	OJ000403_29.0424.C9.o1.tw	Method	TBLASTX:Wheat
Start	2882	End	3288
GI	none	Score	68
Exons	2882..2962, 2884..2961, 3076..3288		

Seq. No.	55632	Seq. ID	OJ000403_29.0424.C9
Gene No.	116542	Strand	-
Start	9484	End	15412
Name	OJ000403_29.0424.C9.o2.tm	Method	TBLASTX:Maize
Start	3597	End	6083
GI	none	Score	66
Exons	3597..3671, 3606..3671, 3745..3795, 3746..3793, 4024..4110, 4039..4107, 4943..5011, 4943..5014, 4944..5015, 5637..5741, 5638..5712, 5817..5894, 6006..6083		

Seq. No.	55632	Seq. ID	OJ000403_29.0424.C9
Gene No.	116542	Strand	-
Start	9484	End	15412
Name	OJ000403_29.0424.C9.o2.np	Method	AAT/NAP
Start	9484	End	15412
GI	7109476	Score	579
Exons	9484..10342, 10415..10578, 11718..11914, 11972..12063, 12162..12248, 12335..12397, 12973..13062, 13359..13445, 14033..14165, 14260..14339, 15254..15310, 15376..15412		
GI Descrip.	(AC016662) unknown protein [Arabidopsis thaliana]		

Seq. No.	55632	Seq. ID	OJ000403_29.0424.C9
Gene No.	116542	Strand	-
Start	9484	End	15412
Name	OJ000403_29.0424.C9.o1.tm	Method	TBLASTX:Maize
Start	9814	End	12379
GI	none	Score	185
Exons	9814..10068, 9814..10068, 9833..10072, 10062..10124, 10066..10131, 10066..10131, 10135..10170, 10138..10194, 10139..10195, 10139..10195, 10140..10223, 10188..10316, 10188..10322, 10231..10323, 10279..10377, 10307..10387, 10339..10608, 10361..10639, 10388..10609, 10389..10613, 11626..11757, 11636..11809, 11636..11824, 11637..11822, 11637..11828, 11869..12063, 11882..12064, 12144..12251, 12145..12255, 12152..12259, 12162..12254, 12338..12379, 12343..12378		

Seq. No.	55632	Seq. ID	OJ000403_29.0424.C9
Gene No.	116542	Strand	-

Start	9484	End	15412
Name	OJ000403_29.0424.C9.o1.gp	Method	AAT/GAP
Start	9928	End	10372
GI	none	Score	890
Exons	9928..10372		

Seq. No.	55632	Seq. ID	OJ000403_29.0424.C9
Gene No.	116542	Strand	-
Start	9484	End	15412
Name	OJ000403_29.0424.C9.o1.ts	Method	TBLASTX:Soybean
Start	11896	End	12374
GI	5058335	Score	106
Exons	11896..12063, 11897..12064, 12144..12254, 12153..12251, 12339..12374		

GI Descrip. -

Seq. No.	55633	Seq. ID	OJ000403_29.0424.C10
Gene No.	116543	Strand	-
Start	1	End	3577
Name	OJ000403_29.0424.C10.o1.np	Method	AAT/NAP
Start	1	End	3577
GI	7109476	Score	558
Exons	1..20, 743..955, 1031..1350, 1447..1544, 2503..2567, 3057..3188, 3537..3577		

GI Descrip. (AC016662) unknown protein [Arabidopsis thaliana]

Seq. No.	55633	Seq. ID	OJ000403_29.0424.C10
Gene No.	116543	Strand	-
Start	1	End	3577
Name	OJ000403_29.0424.C10.o1.gs	Method	GENSCAN
Start	849	End	3478
GI	none	Score	.78
Exons	849..936, 1015..1350, 1480..1544, 2503..2559, 2928..2981, 3061..3186, 3287..3478		

Seq. No.	55633	Seq. ID	OJ000403_29.0424.C10
Gene No.	116543	Strand	-
Start	1	End	3577
Name	OJ000403_29.0424.C10.o1.ts	Method	TBLASTX:Soybean
Start	1476	End	3193
GI	none	Score	59
Exons	1476..1541, 1477..1545, 2913..2993, 2932..2982, 3055..3186, 3059..3193		

Seq. No.	55633	Seq. ID	OJ000403_29.0424.C10
Gene No.	116543	Strand	-
Start	1	End	3577
Name	OJ000403_29.0424.C10.o1.tm	Method	TBLASTX:Maize
Start	2889	End	3187
GI	none	Score	75
Exons	2889..2987, 2913..2978, 3051..3146, 3051..3116, 3055..3147, 3055..3147, 3059..3148, 3148..3186, 3149..3187		

Seq. No.	55634	Seq. ID	OJ000403_29.0424.C11
Gene No.	116544	Strand	-
Start	1	End	1119
Name	OJ000403_29.0424.C11.o1.np	Method	AAT/NAP

Start	1	End	1119
GI	7109476	Score	235
Exons	1..78, 686..752, 839..984, 1087..1119		
GI Descrip.	(AC016662) unknown protein [Arabidopsis thaliana]		

Seq. No.	55634	Seq. ID	OJ000403_29.0424.C11
Gene No.	116544	Strand	-
Start	1	End	1119
Name	OJ000403_29.0424.C11.o1.tm	Method	TBLASTX:Maize
Start	1	End	1118
GI	none	Score	119
Exons	1..87, 3..80, 4..81, 683..751, 684..752, 685..753, 838..990, 839..1003, 840..1010, 841..1008, 1074..1118, 1080..1118		

Seq. No.	55635	Seq. ID	OJ000403_29.0424.C12
Gene No.	116545	Strand	-
Start	1	End	2956
Name	OJ000403_29.0424.C12.o1.np	Method	AAT/NAP
Start	1	End	2912
GI	7109476	Score	199
Exons	1..19, 262..575, 2776..2912		
GI Descrip.	(AC016662) unknown protein [Arabidopsis thaliana]		

Seq. No.	55635	Seq. ID	OJ000403_29.0424.C12
Gene No.	116545	Strand	-
Start	1	End	2956
Name	OJ000403_29.0424.C12.o1.gp	Method	AAT/GAP
Start	44	End	506
GI	4715828	Score	878
Exons	44..506		

Seq. No.	55635	Seq. ID	OJ000403_29.0424.C12
Gene No.	116545	Strand	-
Start	1	End	2956
Name	OJ000403_29.0424.C12.o1.tm	Method	TBLASTX:Maize
Start	136	End	564
GI	none	Score	57
Exons	136..189, 146..190, 147..191, 150..215, 294..455, 295..507, 296..508, 297..509, 512..553, 513..554, 514..564		

Seq. No.	55635	Seq. ID	OJ000403_29.0424.C12
Gene No.	116545	Strand	-
Start	1	End	2956
Name	OJ000403_29.0424.C12.o1.gs	Method	GENSCAN
Start	199	End	2956
GI	none	Score	.5
Exons	199..575, 1003..1166, 2776..2956		

Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116546	Strand	+
Start	583	End	1348
Name	OJ000403_29.0424.C13.o1.gs	Method	GENSCAN
Start	583	End	1348
GI	none	Score	.78
Exons	583..813, 1062..1220, 1226..1348		

Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
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Gene No.	116547	Strand	+
Start	5374	End	9265
Name	OJ000403_29.0424.C13.o1.np	Method	AAT/NAP
Start	5374	End	9265
GI	6539553	Score	6352
Exons	5374..9265		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1 (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116548	Strand	+
Start	11056	End	14818
Name	OJ000403_29.0424.C13.o2.np	Method	AAT/NAP
Start	11056	End	14818
GI	4454467	Score	133
Exons	11056..11386, 14773..14818		
GI Descrip.	(AC006234) unknown protein [Arabidopsis thaliana]		

Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o4.tw	Method	TBLASTX:Wheat
Start	5368	End	5740
GI	none	Score	93
Exons	5368..5484, 5379..5444, 5456..5737, 5458..5739, 5477..5740		

Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o3.tm	Method	TBLASTX:Maize
Start	5489	End	5800
GI	none	Score	351
Exons	5489..5800, 5497..5799		

Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o1.tm	Method	TBLASTX:Maize
Start	6300	End	6622
GI	none	Score	271
Exons	6300..6620, 6307..6621, 6327..6620, 6455..6622		

Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o5.ts	Method	TBLASTX:Soybean
Start	6649	End	7035
GI	none	Score	88
Exons	6649..6804, 6787..7035		

Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o5.tw	Method	TBLASTX:Wheat
Start	6898	End	7092

GI	none	Score	62
Exons	6898..7092, 6900..6989, 6901..7092		
Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o5.tm	Method	TBLASTX:Maize
Start	6949	End	7521
GI	none	Score	215
Exons	6949..7257, 7032..7223, 7276..7521		
Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o3.ts	Method	TBLASTX:Soybean
Start	7045	End	7443
GI	none	Score	180
Exons	7045..7269, 7053..7223, 7060..7254, 7270..7443, 7278..7316		
Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o1.tw	Method	TBLASTX:Wheat
Start	7093	End	7848
GI	none	Score	598
Exons	7093..7542, 7101..7580, 7112..7573, 7600..7848, 7601..7831, 7639..7848		
Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o1.ts	Method	TBLASTX:Soybean
Start	7768	End	8233
GI	5509260	Score	48
Exons	7768..7845, 7865..8233, 7987..8088, 8155..8214		
GI Descrip.	-		
Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o1.tc	Method	TBLASTX:Cress
Start	7865	End	8122
GI	none	Score	280
Exons	7865..8122		
Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o2.tm	Method	TBLASTX:Maize
Start	7903	End	8368
GI	none	Score	353
Exons	7903..8034, 7904..8368, 8039..8221		
Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o3.tw	Method	TBLASTX:Wheat

Start	7904	End	8449
GI	none	Score	317
Exons	7904..8248, 8051..8224, 8243..8449, 8318..8419		

Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o2.ts	Method	TBLASTX:Soybean
Start	8302	End	8647
GI	none	Score	314
Exons	8302..8502, 8303..8647		

Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o4.tm	Method	TBLASTX:Maize
Start	8459	End	8796
GI	none	Score	297
Exons	8459..8785, 8459..8764, 8569..8796		

Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.q2.tw	Method	TBLASTX:Wheat
Start	8654	End	9129
GI	none	Score	83
Exons	8654..8728, 8655..8726, 8742..8846, 8743..9129, 8744..9091		

Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o4.ts	Method	TBLASTX:Soybean
Start	8660	End	9001
GI	none	Score	83
Exons	8660..8773, 8686..8766, 8786..9001, 8786..8980		

Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o6.tm	Method	TBLASTX:Maize
Start	13021	End	13196
GI	none	Score	65
Exons	13021..13083, 13022..13084, 13025..13117, 13029..13118, 13121..13174, 13122..13196, 13123..13179		

Seq. No.	55636	Seq. ID	OJ000403_29.0424.C13
Gene No.	116549	Strand	+
Start	17988	End	18091
Name	OJ000403_29.0424.C13.o2.gp	Method	AAT/GAP
Start	17988	End	18091
GI	LIB3477-003-P1-K1-E9	Score	148
Exons	17988..18091		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	55637	Seq. ID	OJ000403_29.0424.C14
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Gene No.	116550	Strand	-
Start	874	End	1265
Name	OJ000403_29.0424.C14.o1.gp	Method	AAT/GAP
Start	874	End	1265
GI	LIB3432-059-P1-K1-D8	Score	594
Exons	874..1265		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	55638	Seq. ID	OJ000403_29.0424.C15
Gene No.	116551	Strand	+
Start	4809	End	5518
Name	OJ000403_29.0424.C15.o2.gp	Method	AAT/GAP
Start	4681	End	5518
GI	14908_1.R1084	Score	1572
Exons	4681..5518		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 3.0e-10 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	55638	Seq. ID	OJ000403_29.0424.C15
Gene No.	116551	Strand	+
Start	4809	End	5518
Name	OJ000403_29.0424.C15.o1.gs	Method	GENSCAN
Start	4809	End	5150
GI	none	Score	.99
Exons	4809..5150		

Seq. No.	55638	Seq. ID	OJ000403_29.0424.C15
Gene No.	116552	Strand	+
Start	8125	End	11041
Name	OJ000403_29.0424.C15.o3.gp	Method	AAT/GAP
Start	7710	End	7793
GI	5867_1.R1084	Score	133
Exons	7710..7793		
GI Descrip.	'464986/sp P35132 UBC9 ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir_S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi_297884_emb_CAA78714 (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis]		

Seq. No.	55638	Seq. ID	OJ000403_29.0424.C15
Gene No.	116552	Strand	+
Start	8125	End	11041
Name	OJ000403_29.0424.C15.o2.gs	Method	GENSCAN
Start	8125	End	11041
GI	none	Score	.48
Exons	8125..8177, 9413..9689, 10414..10505, 10590..10946, 10948..11041		

Seq. No.	55638	Seq. ID	OJ000403_29.0424.C15
Gene No.	116553	Strand	-
Start	11275	End	12075
Name	OJ000403_29.0424.C15.o3.gs	Method	GENSCAN
Start	11275	End	12075
GI	none	Score	.89
Exons	11275..11426, 11955..12075		

Seq. No.	55639	Seq. ID	OJ000403_29.0424.C16
Gene No.	116554	Strand	+
Start	105	End	538
Name	OJ000403_29.0424.C16.o1.gs	Method	GENSCAN
Start	105	End	538
GI	none	Score	.81
Exons	105..538		

Seq. No.	55639	Seq. ID	OJ000403_29.0424.C16
Gene No.	116555	Strand	-
Start	2391	End	3441
Name	OJ000403_29.0424.C16.o2.gs	Method	GENSCAN
Start	2391	End	3378
GI	none	Score	.93
Exons	2391..2852, 3139..3378		

Seq. No.	55639	Seq. ID	OJ000403_29.0424.C16
Gene No.	116555	Strand	-
Start	2391	End	3441
Name	OJ000403_29.0424.C16.o1.np	Method	AAT/NAP
Start	2417	End	3441
GI	6453905	Score	540
Exons	2417..2891, 3181..3441		
GI Descrip.	(AC011663) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	55639	Seq. ID	OJ000403_29.0424.C16
Gene No.	116555	Strand	-
Start	2391	End	3441
Name	OJ000403_29.0424.C16.o1.tc	Method	TBLASTX:Cress
Start	2649	End	3430
GI	none	Score	126
Exons	2649..2795, 2778..2849, 3136..3429, 3146..3307, 3350..3430		

Seq. No.	55639	Seq. ID	OJ000403_29.0424.C16
Gene No.	116555	Strand	-
Start	2391	End	3441
Name	OJ000403_29.0424.C16.o1.ts	Method	TBLASTX:Soybean
Start	2748	End	3439
GI	none	Score	165
Exons	2748..2852, 3179..3355, 3181..3336, 3341..3439, 3343..3438		

Seq. No.	55639	Seq. ID	OJ000403_29.0424.C16
Gene No.	116555	Strand	-
Start	2391	End	3441
Name	OJ000403_29.0424.C16.o1.tm	Method	TBLASTX:Maize
Start	3139	End	3417
GI	none	Score	379
Exons	3139..3417, 3143..3415		

Seq. No.	55639	Seq. ID	OJ000403_29.0424.C16
Gene No.	116555	Strand	-
Start	2391	End	3441
Name	OJ000403_29.0424.C16.o1.tw	Method	TBLASTX:Wheat
Start	3181	End	3438
GI	none	Score	114
Exons	3181..3339, 3191..3316, 3349..3438, 3359..3430		

Seq. No.	55640	Seq. ID	OJ000403_29.0424.C17
Gene No.	116556	Strand	-
Start	2196	End	4840
Name	OJ000403_29.0424.C17.o1.np	Method	AAT/NAP
Start	2196	End	4348
GI	6453905	Score	316
Exons	2196..2252, 4028..4348		
GI Descrip.	(AC011663) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	55640	Seq. ID	OJ000403_29.0424.C17
Gene No.	116556	Strand	-
Start	2196	End	4840
Name	OJ000403_29.0424.C17.o2.gs	Method	GENSCAN
Start	3830	End	4840
GI	none	Score	.92
Exons	3830..4644, 4679..4840		

Seq. No.	55640	Seq. ID	OJ000403_29.0424.C17
Gene No.	116556	Strand	-
Start	2196	End	4840
Name	OJ000403_29.0424.C17.o1.tm	Method	TBLASTX:Maize
Start	4019	End	4333
GI	none	Score	43
Exons	4019..4087, 4097..4333, 4098..4202, 4260..4310		

Seq. No.	55640	Seq. ID	OJ000403_29.0424.C17
Gene No.	116556	Strand	-
Start	2196	End	4840
Name	OJ000403_29.0424.C17.o1.tc	Method	TBLASTX:Cress
Start	4028	End	4333
GI	none	Score	42
Exons	4028..4093, 4035..4094, 4079..4333, 4083..4196		

Seq. No.	55640	Seq. ID	OJ000403_29.0424.C17
Gene No.	116556	Strand	-
Start	2196	End	4840
Name	OJ000403_29.0424.C17.o1.ts	Method	TBLASTX:Soybean
Start	4028	End	4342
GI	none	Score	58
Exons	4028..4090, 4035..4091, 4092..4187, 4097..4342, 4257..4325		

Seq. No.	55640	Seq. ID	OJ000403_29.0424.C17
Gene No.	116556	Strand	-
Start	2196	End	4840
Name	OJ000403_29.0424.C17.o1.tw	Method	TBLASTX:Wheat
Start	4109	End	4339
GI	none	Score	78
Exons	4109..4339, 4113..4328		

Seq. No.	55641	Seq. ID	OJ000403_29.0424.C18
Gene No.	116557	Strand	+
Start	2172	End	3467
Name	OJ000403_29.0424.C18.o1.tm	Method	TBLASTX:Maize
Start	2123	End	2241
GI	none	Score	182
Exons	2123..2239, 2127..2240, 2127..2240, 2128..2241, 2134..2241		

Seq. No.	55641	Seq. ID	OJ000403_29.0424.C18
Gene No.	116557	Strand	+
Start	2172	End	3467
Name	OJ000403_29.0424.C18.o1.np	Method	AAT/NAP
Start	2172	End	3467
GI	140503	Score	107
Exons	2172..2323, 3375..3467		
GI Descrip.	HYPOTHETICAL 14 KD PROTEIN IN YCF68 TRNI INTRON (ORF 133) gi 82518 pir JQ0279 hypothetical 14.5K protein (trnI intron) - rice chloroplast gi 12041 emb CAA33945 (X15901) ORF133; ORF within trnI intron [Oryza sativa] gi 12061 emb CAA33915 (X15901) ORF133; ORF within trnI intron [Oryza sativa] gi 226660 prf 1603356CL trnI intron ORF 133 [Oryza sativa]		

Seq. No.	55642	Seq. ID	OJ000403_29.0424.C19
Gene No.	116558	Strand	+
Start	1	End	2227
Name	OJ000403_29.0424.C19.o1.np	Method	AAT/NAP
Start	1	End	2227
GI	5881963	Score	1154
Exons	1..659, 732..868, 962..1153, 1260..1347, 1426..1496, 1603..1694, 2134..2227		
GI Descrip.	(AF066079) dihydrolipoamide S-acetyltransferase [Arabidopsis thaliana]		

Seq. No.	55642	Seq. ID	OJ000403_29.0424.C19
Gene No.	116558	Strand	+
Start	1	End	2227
Name	OJ000403_29.0424.C19.o2.tc	Method	TBLASTX:Cress
Start	61	End	271
GI	none	Score	269
Exons	61..270, 62..271		

Seq. No.	55642	Seq. ID	OJ000403_29.0424.C19
Gene No.	116558	Strand	+
Start	1	End	2227
Name	OJ000403_29.0424.C19.o2.ts	Method	TBLASTX:Soybean
Start	61	End	271
GI	none	Score	285
Exons	61..270, 62..271		

Seq. No.	55642	Seq. ID	OJ000403_29.0424.C19
Gene No.	116558	Strand	+
Start	1	End	2227
Name	OJ000403_29.0424.C19.o2.tm	Method	TBLASTX:Maize
Start	61	End	208
GI	none	Score	221
Exons	61..204, 62..208		

Seq. No.	55642	Seq. ID	OJ000403_29.0424.C19
Gene No.	116558	Strand	+
Start	1	End	2227
Name	OJ000403_29.0424.C19.o1.gs	Method	GENSCAN
Start	71	End	2061
GI	none	Score	.64
Exons	71..868, 962..1153, 1260..1347, 1426..1496, 1603..1686,		

2041..2061

Seq. No.	55642	Seq. ID	OJ000403_29.0424.C19
Gene No.	116558	Strand	+
Start	1	End	2227
Name	OJ000403_29.0424.C19.o1.tm	Method	TBLASTX:Maize
Start	211	End	1737
GI	none	Score	71
Exons	211..270, 212..271, 455..571, 457..555, 743..871, 748..852, 958..1041, 962..1165, 962..1165, 1090..1167, 1247..1354, 1257..1352, 1424..1492, 1425..1493, 1431..1493, 1602..1688, 1603..1737		

Seq. No.	55642	Seq. ID	OJ000403_29.0424.C19
Gene No.	116558	Strand	+
Start	1	End	2227
Name	OJ000403_29.0424.C19.o1.ts	Method	TBLASTX:Soybean
Start	455	End	1737
GI	none	Score	100
Exons	455..556, 457..555, 743..871, 745..867, 956..1165, 962..1165, 1090..1167, 1257..1352, 1262..1387, 1425..1460, 1460..1492, 1461..1493, 1602..1691, 1603..1737		

Seq. No.	55642	Seq. ID	OJ000403_29.0424.C19
Gene No.	116558	Strand	+
Start	1	End	2227
Name	OJ000403_29.0424.C19.o1.tc	Method	TBLASTX:Cress
Start	740	End	1695
GI	none	Score	165
Exons	740..871, 748..870, 956..1108, 956..1099, 1105..1152, 1109..1156, 1247..1351, 1257..1352, 1424..1492, 1425..1496, 1599..1688, 1600..1695		

Seq. No.	55642	Seq. ID	OJ000403_29.0424.C19
Gene No.	116558	Strand	+
Start	1	End	2227
Name	OJ000403_29.0424.C19.o1.tw	Method	TBLASTX:Wheat
Start	1316	End	1695
GI	none	Score	55
Exons	1316..1354, 1317..1352, 1424..1492, 1425..1496, 1425..1496, 1426..1500, 1427..1504, 1600..1695, 1602..1691		

Seq. No.	55643	Seq. ID	OJ000403_29.0424.C21
Gene No.	116559	Strand	-
Start	250	End	986
Name	OJ000403_29.0424.C21.o1.gs	Method	GENSCAN
Start	250	End	903
GI	none	Score	.48
Exons	250..903		

Seq. No.	55643	Seq. ID	OJ000403_29.0424.C21
Gene No.	116559	Strand	-
Start	250	End	986
Name	OJ000403_29.0424.C21.o1.np	Method	AAT/NAP
Start	253	End	630
GI	7228452	Score	617
Exons	253..630		

GI Descrip. (AP001366) hypothetical protein [Oryza sativa]

Seq. No.	55643	Seq. ID	OJ000403_29.0424.C21
Gene No.	116559	Strand	-
Start	250	End	986
Name	OJ000403_29.0424.C21.o2.np	Method	AAT/NAP
Start	710	End	986
GI	6006375	Score	452
Exons	710..986		
GI Descrip.	(AP000559) Similar to ORF3 protein - rice tungro bacilliform virus &RTUORFS_2 (C40785) [Oryza sativa]		

Seq. No.	55644	Seq. ID	OJ000323_20.0419.C1
Gene No.	116560	Strand	+
Start	173	End	700
Name	OJ000323_20.0419.C1.o1.gs	Method	GENSCAN
Start	173	End	700
GI	none	Score	.56
Exons	173..290, 608..700		

Seq. No.	55644	Seq. ID	OJ000323_20.0419.C1
Gene No.	116561	Strand	-
Start	167	End	247
Name	OJ000323_20.0419.C1.o1.np	Method	AAT/NAP
Start	167	End	247
GI	6630699	Score	77
Exons	167..247		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1 (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	55645	Seq. ID	OJ000323_20.0419.C3
Gene No.	116562	Strand	+
Start	1	End	8387
Name	OJ000323_20.0419.C3.o2.np	Method	AAT/NAP
Start	1	End	8387
GI	119714	Score	109
Exons	1..46, 1005..1194, 4460..4893, 8356..8387		
GI Descrip.	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) gi 82169 pir S06733 hydroxyproline-rich glycoprotein precursor - common tobacco gi 19867 emb CAA32090 (X13885) extensin (AA 1-620) [Nicotiana tabacum]		

Seq. No.	55645	Seq. ID	OJ000323_20.0419.C3
Gene No.	116562	Strand	+
Start	1	End	8387
Name	OJ000323_20.0419.C3.o1.gp	Method	AAT/GAP
Start	2494	End	2955
GI	uC-osflcyp177g01a1	Score	240
Exons	2494..2656, 2921..2955		
GI Descrip.	'4884864/gb AAD31846.1 AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'		

Seq. No.	55645	Seq. ID	OJ000323_20.0419.C3
Gene No.	116562	Strand	+
Start	1	End	8387
Name	OJ000323_20.0419.C3.o3.np	Method	AAT/NAP

Start	6139	End	8387
GI	7488135	Score	.77
Exons	6139..6324, 8371..8387		
GI Descrip.	probable myosin heavy chain - Arabidopsis thaliana gi 2245080 emb CAB10502.1 (Z97343) myosin heavy chain like protein [Arabidopsis thaliana] gi 7268473 emb CAB78724.1 (AL161546) putative protein [Arabidopsis thaliana]		

Seq. No.	55645	Seq. ID	OJ000323_20.0419.C3
Gene No.	116563	Strand	-
Start	123	End	1760
Name	OJ000323_20.0419.C3.o1.gs	Method	GENSCAN
Start	123	End	1760
GI	none	Score	.78
Exons	123..214, 301..905, 1055..1223, 1653..1760		

Seq. No.	55645	Seq. ID	OJ000323_20.0419.C3
Gene No.	116563	Strand	-
Start	123	End	1760
Name	OJ000323_20.0419.C3.o1.np	Method	AAT/NAP
Start	292	End	1184
GI	5902448	Score	1555
Exons	292..1184		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	55645	Seq. ID	OJ000323_20.0419.C3
Gene No.	116564	Strand	-
Start	2747	End	4870
Name	OJ000323_20.0419.C3.o2.gs	Method	GENSCAN
Start	2747	End	4870
GI	none	Score	.64
Exons	2747..2994, 3136..3235, 3507..3667, 4651..4870		

Seq. No.	55645	Seq. ID	OJ000323_20.0419.C3
Gene No.	116565	Strand	-
Start	6647	End	7071
Name	OJ000323_20.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	6144	End	6324
GI	none	Score	173
Exons	6144..6323, 6144..6323, 6145..6324, 6145..6324		

Seq. No.	55645	Seq. ID	OJ000323_20.0419.C3
Gene No.	116565	Strand	-
Start	6647	End	7071
Name	OJ000323_20.0419.C3.o3.gs	Method	GENSCAN
Start	6647	End	7071
GI	none	Score	.49
Exons	6647..6759, 6825..7071		

Seq. No.	55646	Seq. ID	OJ000323_20.0419.C5
Gene No.	116566	Strand	+
Start	1559	End	3112
Name	OJ000323_20.0419.C5.o1.gs	Method	GENSCAN
Start	1559	End	3112
GI	none	Score	.8
Exons	1559..1576, 1649..1820, 2573..2985, 3095..3112		

Seq. No.	55646	Seq. ID	OJ000323_20.0419.C5
Gene No.	116567	Strand	-
Start	1	End	9311
Name	OJ000323_20.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	9311
GI	4680207	Score	986
Exons	1..1270, 1340..1736, 7014..7861, 9265..9311		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

Seq. No.	55646	Seq. ID	OJ000323_20.0419.C5
Gene No.	116567	Strand	-
Start	1	End	9311
Name	OJ000323_20.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	788	End	1243
GI	none	Score	55
Exons	788..907, 807..908, 938..1243, 1014..1241		

Seq. No.	55646	Seq. ID	OJ000323_20.0419.C5
Gene No.	116567	Strand	-
Start	1	End	9311
Name	OJ000323_20.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	980	End	1571
GI	none	Score	97
Exons	980..1183, 1017..1181, 1211..1279, 1211..1279, 1332..1400, 1447..1566, 1467..1571		

Seq. No.	55647	Seq. ID	OJ000323_20.0419.C6
Gene No.	116568	Strand	+
Start	78	End	537
Name	OJ000323_20.0419.C6.o1.gs	Method	GENSCAN
Start	78	End	537
GI	none	Score	.91
Exons	78..263, 310..537		

Seq. No.	55648	Seq. ID	OJ000323_20.0419.C7
Gene No.	116569	Strand	-
Start	470	End	902
Name	OJ000323_20.0419.C7.o1.gs	Method	GENSCAN
Start	470	End	902
GI	none	Score	.55
Exons	470..655, 862..902		

Seq. No.	55649	Seq. ID	OJ000323_20.0419.C8
Gene No.	116570	Strand	+
Start	592	End	1331
Name	OJ000323_20.0419.C8.o1.gs	Method	GENSCAN
Start	592	End	1331
GI	none	Score	.51
Exons	592..744, 1122..1331		

Seq. No.	55649	Seq. ID	OJ000323_20.0419.C8
Gene No.	116571	Strand	-
Start	1777	End	3236
Name	OJ000323_20.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	1179	End	1427
GI	none	Score	55

Exons 1179..1289, 1180..1290, 1298..1354, 1304..1348, 1355..1426, 1359..1427

Seq. No.	55649	Seq. ID	OJ000323_20.0419.C8
Gene No.	116571	Strand	-
Start	1777	End	3236
Name	OJ000323_20.0419.C8.o2.gs	Method	GENSCAN
Start	1777	End	3236
GI	none	Score	.97
Exons	1777..2227, 2713..3236		

Seq. No.	55649	Seq. ID	OJ000323_20.0419.C8
Gene No.	116571	Strand	-
Start	1777	End	3236
Name	OJ000323_20.0419.C8.o1.np	Method	AAT/NAP
Start	1783	End	3173
GI	6911845	Score	535
Exons	1783..2269, 2713..3173		
GI Descrip.	(AL138649) sulfotransferase-like protein [Arabidopsis thaliana]		

Seq. No.	55649	Seq. ID	OJ000323_20.0419.C8
Gene No.	116571	Strand	-
Start	1777	End	3236
Name	OJ000323_20.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	1786	End	2208
GI	none	Score	73
Exons	1786..1908, 1808..1903, 1904..2053, 1930..2208		

Seq. No.	55649	Seq. ID	OJ000323_20.0419.C8
Gene No.	116571	Strand	-
Start	1777	End	3236
Name	OJ000323_20.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1894	End	2142
GI	none	Score	97
Exons	1894..2142, 1925..2053		

Seq. No.	55649	Seq. ID	OJ000323_20.0419.C8
Gene No.	116571	Strand	-
Start	1777	End	3236
Name	OJ000323_20.0419.C8.o1.gp	Method	AAT/GAP
Start	2782	End	3181
GI	2428038	Score	738
Exons	2782..3181		

Seq. No.	55649	Seq. ID	OJ000323_20.0419.C8
Gene No.	116571	Strand	-
Start	1777	End	3236
Name	OJ000323_20.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	2865	End	3236
GI	none	Score	114
Exons	2865..3023, 2865..3008, 2970..3158, 2979..3095, 3105..3176, 3138..3236, 3178..3201		

Seq. No.	55650	Seq. ID	OJ000323_20.0419.C9
Gene No.	116572	Strand	+
Start	4041	End	12491
Name	OJ000323_20.0419.C9.o1.np	Method	AAT/NAP

Start	4041	End	12491
GI	5922631	Score	5376
Exons	4041..4165, 4424..4683, 4951..5111, 5156..5737, 5780..5930, 6057..6715, 9816..10083, 10690..12491		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi 6016864 dbj BAA85207.1 (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ		

Seq. No.	55650	Seq. ID	OJ000323_20.0419.C9
Gene No.	116573	Strand	-
Start	7420	End	7801
Name	OJ000323_20.0419.C9.o6.tw	Method	TBLASTX:Wheat
Start	5341	End	5743
GI	none	Score	297
Exons	5341..5610, 5342..5743		

Seq. No.	55650	Seq. ID	OJ000323_20.0419.C9
Gene No.	116573	Strand	-
Start	7420	End	7801
Name	OJ000323_20.0419.C9.o5.tw	Method	TBLASTX:Wheat
Start	6374	End	6715
GI	none	Score	306
Exons	6374..6715, 6421..6693		

Seq. No.	55650	Seq. ID	OJ000323_20.0419.C9
Gene No.	116573	Strand	-
Start	7420	End	7801
Name	OJ000323_20.0419.C9.o1.gp	Method	AAT/GAP
Start	7420	End	7801
GI	uC-osflcyp033a04b1	Score	643
Exons	7420..7801		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	55650	Seq. ID	OJ000323_20.0419.C9
Gene No.	116574	Strand	-
Start	10100	End	10586
Name	OJ000323_20.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	10100	End	10556
GI	none	Score	486
Exons	10100..10555, 10101..10556		

Seq. No.	55650	Seq. ID	OJ000323_20.0419.C9
Gene No.	116574	Strand	-
Start	10100	End	10586
Name	OJ000323_20.0419.C9.o2.ts	Method	TBLASTX:Soybean
Start	10140	End	10505
GI	none	Score	125
Exons	10140..10364, 10371..10505		

Seq. No.	55650	Seq. ID	OJ000323_20.0419.C9
Gene No.	116574	Strand	-
Start	10100	End	10586

Name OJ000323_20.0419.C9.o3.tm
 Start 10229
 GI none
 Exons 10229..10576, 10230..10586

Method TBLASTX:Maize
 End 10586
 Score 364

Seq. No. 55650
 Gene No. 116575
 Start 10671
 Name OJ000323_20.0419.C9.o2.tw
 Start 10671
 GI none
 Exons 10671..11090, 10769..11095

Seq. ID OJ000323_20.0419.C9
 Strand
 End 11261
 Method TBLASTX:Wheat
 End 11095
 Score 402

Seq. No. 55650
 Gene No. 116575
 Start 10671
 Name OJ000323_20.0419.C9.o1.ts
 Start 10719
 GI none
 Exons 10719..11150, 10766..10909, 10782..11063

Seq. ID OJ000323_20.0419.C9
 Strand
 End 11261
 Method TBLASTX:Soybean
 End 11150
 Score 290

Seq. No. 55650
 Gene No. 116575
 Start 10671
 Name OJ000323_20.0419.C9.o2.tm
 Start 10817
 GI none
 Exons 10817..11071, 10818..11072, 10818..11072, 11064..11225, 11235..11261

Seq. ID OJ000323_20.0419.C9
 Strand
 End 11261
 Method TBLASTX:Maize
 End 11261
 Score 273

Seq. No. 55650
 Gene No. 116576
 Start 11258
 Name OJ000323_20.0419.C9.o3.tw
 Start 11258
 GI none
 Exons 11258..11476, 11259..11489, 11519..11665, 11520..11666

Seq. ID OJ000323_20.0419.C9
 Strand
 End 11666
 Method TBLASTX:Wheat
 End 11666
 Score 245

Seq. No. 55650
 Gene No. 116577
 Start 11678
 Name OJ000323_20.0419.C9.o7.tw
 Start 11678
 GI none
 Exons 11678..11806, 11724..11957

Seq. ID OJ000323_20.0419.C9
 Strand
 End 11957
 Method TBLASTX:Wheat
 End 11957
 Score 216

Seq. No. 55650
 Gene No. 116578
 Start 11997
 Name OJ000323_20.0419.C9.o4.tw
 Start 11997
 GI none
 Exons 11997..12425, 12066..12371

Seq. ID OJ000323_20.0419.C9
 Strand
 End 12431
 Method TBLASTX:Wheat
 End 12425
 Score 331

Seq. No. 55650
 Gene No. 116578
 Start 11997

Seq. ID OJ000323_20.0419.C9
 Strand
 End 12431

Name OJ000323_20.0419.C9.o1.tm
 Start 12120
 GI none
 Exons 12120..12431, 12143..12430

Method TBLASTX:Maize
 End 12431
 Score 395

Seq. No. 55651
 Gene No. 116579
 Start 85
 Name OJ000323_20.0419.C12.o1.gs
 Start 85
 GI none
 Exons 85..161, 619..701

Seq. ID OJ000323_20.0419.C12
 Strand +
 End 701
 Method GENSCAN
 End 701
 Score .92

Seq. No. 55651
 Gene No. 116580
 Start 1
 Name OJ000323_20.0419.C12.o1.np
 Start 1
 GI 6539570
 Exons 1..38, 282..348, 508..668, 1455..1494
 GI Descrip. (AP000836) hypothetical protein [Oryza sativa]

Seq. ID OJ000323_20.0419.C12
 Strand -
 End 2481
 Method AAT/NAP
 End 1494
 Score 239

Seq. No. 55651
 Gene No. 116580
 Start 1
 Name OJ000323_20.0419.C12.o2.gs
 Start 1163
 GI none
 Exons 1163..1332, 1377..1613, 1639..1723, 2129..2246, 2474..2481

Seq. ID OJ000323_20.0419.C12
 Strand -
 End 2481
 Method GENSCAN
 End 2481
 Score .5

Seq. No. 55651
 Gene No. 116581
 Start 2738
 Name OJ000323_20.0419.C12.o3.gs
 Start 2738
 GI none
 Exons 2738..3203, 4087..4105, 6848..6929

Seq. ID OJ000323_20.0419.C12
 Strand -
 End 6929
 Method GENSCAN
 End 6929
 Score .59

Seq. No. 55652
 Gene No. 116582
 Start 3551
 Name OJ000323_20.0419.C13.o1.gs
 Start 3551
 GI none
 Exons 3551..3728, 3808..4003, 4930..5274

Seq. ID OJ000323_20.0419.C13
 Strand +
 End 5274
 Method GENSCAN
 End 5274
 Score .85

Seq. No. 55652
 Gene No. 116583
 Start 6332
 Name OJ000323_20.0419.C13.o2.gs
 Start 6332
 GI none
 Exons 6332..6726, 7002..7206, 7829..7831

Seq. ID OJ000323_20.0419.C13
 Strand -
 End 7831
 Method GENSCAN
 End 7831
 Score .7

Seq. No. 55653
 Gene No. 116584
 Start 1

Seq. ID OJ000323_20.0419.C16
 Strand -
 End 1112

Name	OJ000323_20.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	1112
GI	6691716	Score	1201
Exons	1..177, 369..1112		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	55653	Seq. ID	OJ000323_20.0419.C16
Gene No.	116584	Strand	-
Start	1	End	1112
Name	OJ000323_20.0419.C16.o1.gs	Method	GENSCAN
Start	34	End	1046
GI	none	Score	.66
Exons	34..223, 379..500, 513..713, 940..1046		

Seq. No.	55653	Seq. ID	OJ000323_20.0419.C16
Gene No.	116584	Strand	-
Start	1	End	1112
Name	OJ000323_20.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	878	End	1084
GI	none	Score	55
Exons	878..1084, 930..1070		

Seq. No.	55654	Seq. ID	OJ000323_20.0419.C18
Gene No.	116585	Strand	+
Start	416	End	4230
Name	OJ000323_20.0419.C18.o1.gs	Method	GENSCAN
Start	416	End	1732
GI	none	Score	.99
Exons	416..1732		

Seq. No.	55654	Seq. ID	OJ000323_20.0419.C18
Gene No.	116585	Strand	+
Start	416	End	4230
Name	OJ000323_20.0419.C18.o1.np	Method	AAT/NAP
Start	416	End	3348
GI	5902444	Score	4899
Exons	416..3348		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	55654	Seq. ID	OJ000323_20.0419.C18
Gene No.	116585	Strand	+
Start	416	End	4230
Name	OJ000323_20.0419.C18.o4.tw	Method	TBLASTX:Wheat
Start	1704	End	2106
GI	none	Score	289
Exons	1704..1973, 1705..2106		

Seq. No.	55654	Seq. ID	OJ000323_20.0419.C18
Gene No.	116585	Strand	+
Start	416	End	4230
Name	OJ000323_20.0419.C18.o2.gs	Method	GENSCAN
Start	1819	End	4153
GI	none	Score	.71
Exons	1819..3335, 3432..4153		

Seq. No.	55654	Seq. ID	OJ000323_20.0419.C18
Gene No.	116585	Strand	+
Start	416	End	4230
Name	OJ000323_20.0419.C18.o2.tw	Method	TBLASTX:Wheat
Start	2683	End	3360
GI	none	Score	149
Exons	2683..2859, 2746..2859, 2902..3138, 2907..3140, 3244..3360		

Seq. No.	55654	Seq. ID	OJ000323_20.0419.C18
Gene No.	116585	Strand	+
Start	416	End	4230
Name	OJ000323_20.0419.C18.o3.tm	Method	TBLASTX:Maize
Start	2991	End	3138
GI	none	Score	183
Exons	2991..3137, 2992..3138		

Seq. No.	55654	Seq. ID	OJ000323_20.0419.C18
Gene No.	116585	Strand	+
Start	416	End	4230
Name	OJ000323_20.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	3360	End	3816
GI	none	Score	497
Exons	3360..3815, 3361..3816		

Seq. No.	55654	Seq. ID	OJ000323_20.0419.C18
Gene No.	116585	Strand	+
Start	416	End	4230
Name	OJ000323_20.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	3400	End	3765
GI	none	Score	138
Exons	3400..3624, 3631..3765		

Seq. No.	55654	Seq. ID	OJ000323_20.0419.C18
Gene No.	116585	Strand	+
Start	416	End	4230
Name	OJ000323_20.0419.C18.o2.np	Method	AAT/NAP
Start	3415	End	4230
GI	5902445	Score	1413
Exons	3415..4230		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	55654	Seq. ID	OJ000323_20.0419.C18
Gene No.	116585	Strand	+
Start	416	End	4230
Name	OJ000323_20.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	3490	End	3846
GI	none	Score	375
Exons	3490..3846, 3531..3836		

Seq. No.	55654	Seq. ID	OJ000323_20.0419.C18
Gene No.	116585	Strand	+
Start	416	End	4230
Name	OJ000323_20.0419.C18.o3.tw	Method	TBLASTX:Wheat
Start	3816	End	4134
GI	none	Score	338
Exons	3816..4133, 3817..4134		

Seq. No.	55654	Seq. ID	OJ000323_20.0419.C18
Gene No.	116585	Strand	+
Start	416	End	4230
Name	OJ000323_20.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	3874	End	4230
GI	none	Score	295
Exons	3874..4230, 3978..4226		

Seq. No.	55654	Seq. ID	OJ000323_20.0419.C18
Gene No.	116585	Strand	+
Start	416	End	4230
Name	OJ000323_20.0419.C18.o2.ts	Method	TBLASTX:Soybean
Start	4009	End	4221
GI	none	Score	190
Exons	4009..4221, 4026..4169		

Seq. No.	55655	Seq. ID	OJ000323_20.0419.C19
Gene No.	116586	Strand	+
Start	1	End	830
Name	OJ000323_20.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	830
GI	4680204	Score	387
Exons	1..725, 809..830		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	55655	Seq. ID	OJ000323_20.0419.C19
Gene No.	116586	Strand	+
Start	1	End	830
Name	OJ000323_20.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	32	End	371
GI	none	Score	163
Exons	32..181, 33..200, 195..335, 254..334, 339..371, 345..365		

Seq. No.	55655	Seq. ID	OJ000323_20.0419.C19
Gene No.	116586	Strand	+
Start	1	End	830
Name	OJ000323_20.0419.C19.o1.gs	Method	GENSCAN
Start	54	End	719
GI	none	Score	.52
Exons	54..719		

Seq. No.	55656	Seq. ID	OJ000323_20.0419.C20
Gene No.	116587	Strand	+
Start	165	End	1157
Name	OJ000323_20.0419.C20.o1.gs	Method	GENSCAN
Start	165	End	1157
GI	none	Score	.89
Exons	165..338, 443..543, 627..699, 797..895, 975..1157		

Seq. No.	55656	Seq. ID	OJ000323_20.0419.C20
Gene No.	116588	Strand	-
Start	1292	End	1387
Name	OJ000323_20.0419.C20.o1.gp	Method	AAT/GAP
Start	1292	End	1387
GI	LIB3477-003-P1-K1-E9	Score	108
Exons	1292..1387		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY		

S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]

Seq. No.	55657	Seq. ID	OJ000323_20.0419.C21
Gene No.	116589	Strand	-
Start	305	End	856
Name	OJ000323_20.0419.C21.ol.np	Method	AAT/NAP
Start	305	End	856
GI	5902448	Score	935
Exons	305..856		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	55658	Seq. ID	OJ000323_20.0419.C22
Gene No.	116590	Strand	-
Start	2094	End	2689
Name	OJ000323_20.0419.C22.ol.gs	Method	GENSCAN
Start	2094	End	2689
GI	none	Score	.81
Exons	2094..2170, 2217..2479, 2490..2689		

Seq. No.	55659	Seq. ID	OJ000323_20.0419.C23
Gene No.	116591	Strand	+
Start	1011	End	3515
Name	OJ000323_20.0419.C23.ol.np	Method	AAT/NAP
Start	1011	End	3515
GI	6815097	Score	1355
Exons	1011..1879, 2385..2995, 3110..3515		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	55660	Seq. ID	OJ000323_20.0419.C24
Gene No.	116592	Strand	-
Start	61	End	626
Name	OJ000323_20.0419.C24.ol.gp	Method	AAT/GAP
Start	61	End	626
GI	4879016	Score	905
Exons	61..626		
GI Descrip.	6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	55661	Seq. ID	OJ000323_20.0419.C25
Gene No.	116593	Strand	+
Start	2016	End	4655
Name	OJ000323_20.0419.C25.ol.np	Method	AAT/NAP
Start	2016	End	4655
GI	5295955	Score	739
Exons	2016..2085, 2628..2742, 3424..3493, 3614..3879, 3911..4047, 4087..4655		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	55661	Seq. ID	OJ000323_20.0419.C25
Gene No.	116594	Strand	+
Start	5016	End	5396
Name	OJ000323_20.0419.C25.o4.gs	Method	GENSCAN
Start	5016	End	5396

GI	none	Score	.94
Exons	5016..5396		
Seq. No.	55661	Seq. ID	OJ000323_20.0419.C25
Gene No.	116595	Strand	+
Start	6011	End	6455
Name	OJ000323_20.0419.C25.o1.gp	Method	AAT/GAP
Start	6011	End	6455
GI	LIB3431-028-P1-N1-A10	Score	750
Exons	6011..6076, 6104..6455		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	55661	Seq. ID	OJ000323_20.0419.C25
Gene No.	116596	Strand	+
Start	9288	End	9669
Name	OJ000323_20.0419.C25.o2.gp	Method	AAT/GAP
Start	9288	End	9669
GI	uC-osflcyp033a04b1	Score	675
Exons	9288..9669		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	55661	Seq. ID	OJ000323_20.0419.C25
Gene No.	116597	Strand	-
Start	93	End	524
Name	OJ000323_20.0419.C25.o1.gs	Method	GENSCAN
Start	93	End	524
GI	none	Score	.84
Exons	93..524		

Seq. No.	55661	Seq. ID	OJ000323_20.0419.C25
Gene No.	116598	Strand	-
Start	1316	End	2795
Name	OJ000323_20.0419.C25.o2.gs	Method	GENSCAN
Start	1316	End	2795
GI	none	Score	.49
Exons	1316..1356, 1648..1762, 2046..2082, 2728..2795		

Seq. No.	55661	Seq. ID	OJ000323_20.0419.C25
Gene No.	116599	Strand	-
Start	3475	End	4344
Name	OJ000323_20.0419.C25.o3.gs	Method	GENSCAN
Start	3475	End	4344
GI	none	Score	.77
Exons	3475..3752, 3812..3896, 3988..4344		

Seq. No.	55661	Seq. ID	OJ000323_20.0419.C25
Gene No.	116600	Strand	-
Start	6074	End	10873
Name	OJ000323_20.0419.C25.o5.gs	Method	GENSCAN
Start	6074	End	10832
GI	none	Score	.65
Exons	6074..6664, 6986..7167, 8019..8488, 9518..9571, 10534..10832		

Seq. No.	55661	Seq. ID	OJ000323_20.0419.C25
Gene No.	116600	Strand	-

Start	6074	End	10873
Name	OJ000323_20.0419.C25.o1.tw	Method	TBLASTX:Wheat
Start	6155	End	10510
GI	none	Score	130
Exons	6155..6241, 6230..6310, 6315..6434, 6323..6463, 6324..6464, 6411..6506, 6443..6502, 6509..6550, 6509..6553, 6513..6554, 6514..6555, 6548..7297, 6564..7298, 7000..7305, 7107..7298, 10297..10506, 10313..10510, 10333..10509		

Seq. No.	55661	Seq. ID	OJ000323_20.0419.C25
Gene No.	116600	Strand	-
Start	6074	End	10873
Name	OJ000323_20.0419.C25.o2.np	Method	AAT/NAP
Start	6633	End	10873
GI	6742729	Score	1790
Exons	6633..7294, 10339..10873		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	55661	Seq. ID	OJ000323_20.0419.C25
Gene No.	116600	Strand	-
Start	6074	End	10873
Name	OJ000323_20.0419.C25.o1.tc	Method	TBLASTX:Cress
Start	6731	End	7178
GI	none	Score	93
Exons	6731..6880, 6731..7174, 6735..7178		

Seq. No.	55661	Seq. ID	OJ000323_20.0419.C25
Gene No.	116600	Strand	-
Start	6074	End	10873
Name	OJ000323_20.0419.C25.o2.tw	Method	TBLASTX:Wheat
Start	10513	End	10871
GI	none	Score	51
Exons	10513..10548, 10533..10595, 10534..10596, 10629..10871, 10669..10851		

Seq. No.	55662	Seq. ID	OJ000303_20.0419.C10
Gene No.	116601	Strand	+
Start	10	End	393
Name	OJ000303_20.0419.C10.o1.gp	Method	AAT/GAP
Start	10	End	393
GI	3768716	Score	726
Exons	10..393		

Seq. No.	55663	Seq. ID	OJ000303_20.0419.C12
Gene No.	116602	Strand	+
Start	61	End	243
Name	OJ000303_20.0419.C12.o1.gs	Method	GENSCAN
Start	61	End	243
GI	none	Score	.73
Exons	61..243		

Seq. No.	55664	Seq. ID	OJ000303_20.0419.C19
Gene No.	116603	Strand	-
Start	487	End	869
Name	OJ000303_20.0419.C19.o1.gp	Method	AAT/GAP
Start	487	End	869
GI	2311431	Score	715

Exons 487..869

Seq. No.	55664	Seq. ID	OJ000303_20.0419.C19
Gene No.	116604	Strand	-
Start	990	End	1332
Name	OJ000303_20.0419.C19.o1.gs	Method	GENSCAN
Start	990	End	1332
GI	none	Score	.86
Exons	990..1196, 1297..1332		

Seq. No.	55665	Seq. ID	OJ000303_20.0419.C21
Gene No.	116605	Strand	-
Start	542	End	622
Name	OJ000303_20.0419.C21.o1.gp	Method	AAT/GAP
Start	542	End	622
GI	90742_1.R1084	Score	104
Exons	542..622		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 4.0e-29 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	55666	Seq. ID	OJ000303_20.0419.C24
Gene No.	116606	Strand	-
Start	643	End	987
Name	OJ000303_20.0419.C24.o1.gs	Method	GENSCAN
Start	643	End	987
GI	none	Score	.56
Exons	643..753, 832..987		

Seq. No.	55667	Seq. ID	OJ000303_20.0419.C25
Gene No.	116607	Strand	+
Start	1267	End	3805
Name	OJ000303_20.0419.C25.o1.np	Method	AAT/NAP
Start	1267	End	3796
GI	7109715	Score	489
Exons	1267..1549, 1589..2054, 2082..2720, 2760..2900, 3275..3432, 3562..3638, 3733..3796		
GI Descrip.	(AF087016) auxin transporter splice variant b [Arabidopsis thaliana]		

Seq. No.	55667	Seq. ID	OJ000303_20.0419.C25
Gene No.	116607	Strand	+
Start	1267	End	3805
Name	OJ000303_20.0419.C25.o1.gs	Method	GENSCAN
Start	1306	End	3805
GI	none	Score	.48
Exons	1306..2080, 2336..2384, 2815..2900, 3275..3638, 3733..3805		

Seq. No.	55667	Seq. ID	OJ000303_20.0419.C25
Gene No.	116608	Strand	+
Start	5784	End	6471
Name	OJ000303_20.0419.C25.o2.gs	Method	GENSCAN
Start	5784	End	6471
GI	none	Score	.6
Exons	5784..5910, 6317..6471		

Seq. No.	55667	Seq. ID	OJ000303_20.0419.C25
Gene No.	116609	Strand	+

Start	8390	End	11962
Name	OJ000303_20.0419.C25.o2.tc	Method	TBLASTX:Cress
Start	1258	End	1644
GI	none	Score	175
Exons	1258..1476, 1603..1644		

Seq. No.	55667	Seq. ID	OJ000303_20.0419.C25
Gene No.	116609	Strand	+
Start	8390	End	11962
Name	OJ000303_20.0419.C25.o2.tm	Method	TBLASTX:Maize
Start	1260	End	1476
GI	none	Score	199
Exons	1260..1403, 1264..1476		

Seq. No.	55667	Seq. ID	OJ000303_20.0419.C25
Gene No.	116609	Strand	+
Start	8390	End	11962
Name	OJ000303_20.0419.C25.o2.np	Method	AAT/NAP
Start	7854	End	11664
GI	1076361	Score	998
Exons	7854..8042, 8564..8704, 9731..9864, 9953..10066, 10610..10705, 11010..11097, 11181..11249, 11410..11664		
GI Descrip.	oleoyl-[acyl-carrier-protein] hydrolase (EC 3.1.2.14) - Arabidopsis thaliana gi 2129660 pir S69197 oleoyl-[acyl-carrier-protein] hydrolase (EC 3.1.2.14) (clone TE 1-7) - Arabidopsis thaliana gi 804946 emb CAA85389 (Z36912) acyl-(acyl carrier protein) thioesterase [Arabidopsis thaliana]		

Seq. No.	55667	Seq. ID	OJ000303_20.0419.C25
Gene No.	116609	Strand	+
Start	8390	End	11962
Name	OJ000303_20.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	8380	End	11796
GI	none	Score	64
Exons	8380..8424, 8390..8419, 8555..8704, 8619..8648, 8632..8694, 9725..9865, 9730..9861, 9951..10064, 9953..10093, 9954..10064, 10599..10703, 10605..10706, 10606..10704, 10607..10714, 10973..11086, 11007..11087, 11007..11102, 11008..11097, 11165..11254, 11175..11249, 11182..11250, 11407..11583, 11410..11583, 11448..11597, 11515..11664, 11553..11663, 11567..11707, 11764..11796		

Seq. No.	55667	Seq. ID	OJ000303_20.0419.C25
Gene No.	116609	Strand	+
Start	8390	End	11962
Name	OJ000303_20.0419.C25.o3.gs	Method	GENSCAN
Start	8390	End	8884
GI	none	Score	.46
Exons	8390..8884		

Seq. No.	55667	Seq. ID	OJ000303_20.0419.C25
Gene No.	116609	Strand	+
Start	8390	End	11962
Name	OJ000303_20.0419.C25.o1.tc	Method	TBLASTX:Cress
Start	8570	End	11652
GI	none	Score	183
Exons	8570..8704, 8638..8694, 9725..9865, 9727..9861, 9728..9865,		

9945..10061, 9953..10084, 9954..10064, 10599..10706,
10605..10706, 11007..11090, 11008..11094, 11154..11240,
11175..11249, 11180..11254, 11407..11508, 11409..11483,
11536..11652, 11538..11651

Seq. No.	55667	Seq. ID	OJ000303_20.0419.C25
Gene No.	116609	Strand	+
Start	8390	End	11962
Name	OJ000303_20.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	8573	End	11649
GI	none	Score	110
Exons	8573..8704, 9725..9865, 9743..9865, 9953..10093, 9954..10088, 10605..10679, 11175..11249, 11407..11514, 11611..11649		

Seq. No.	55667	Seq. ID	OJ000303_20.0419.C25
Gene No.	116609	Strand	+
Start	8390	End	11962
Name	OJ000303_20.0419.C25.o4.gs	Method	GENSCAN
Start	9797	End	11664
GI	none	Score	.87
Exons	9797..9864, 9953..10066, 10610..10705, 11010..11097, 11181..11249, 11410..11664		

Seq. No.	55667	Seq. ID	OJ000303_20.0419.C25
Gene No.	116609	Strand	+
Start	8390	End	11962
Name	OJ000303_20.0419.C25.o1.gp	Method	AAT/GAP
Start	11410	End	11962
GI	84014_1.R1084	Score	1028
Exons	11410..11962		
GI Descrip.	'1930079 7.0e-19 (U92877) acyl-ACP thioesterase [Garcinia mangostana]'		

Seq. No.	55668	Seq. ID	OJ000303_20.0419.C26
Gene No.	116610	Strand	-
Start	308	End	3882
Name	OJ000303_20.0419.C26.o1.np	Method	AAT/NAP
Start	308	End	3870
GI	6642643	Score	462
Exons	308..525, 1621..1748, 3195..3453, 3511..3870		
GI Descrip.	(AC012395) unknown protein [Arabidopsis thaliana]		

Seq. No.	55668	Seq. ID	OJ000303_20.0419.C26
Gene No.	116610	Strand	-
Start	308	End	3882
Name	OJ000303_20.0419.C26.o1.gs	Method	GENSCAN
Start	322	End	3882
GI	none	Score	.76
Exons	322..525, 1621..1775, 3165..3882		

Seq. No.	55668	Seq. ID	OJ000303_20.0419.C26
Gene No.	116610	Strand	-
Start	308	End	3882
Name	OJ000303_20.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	364	End	3739
GI	none	Score	63
Exons	364..453, 1616..1714, 1618..1749, 3502..3726, 3511..3711,		

3515..3739

Seq. No.	55668	Seq. ID	OJ000303_20.0419.C26
Gene No.	116610	Strand	-
Start	308	End	3882
Name	OJ000303_20.0419.C26.o1.tc	Method	TBLASTX:Cress
Start	3511	End	3870
GI	none	Score	176
Exons	3511..3744, 3512..3745, 3727..3870, 3728..3850, 3754..3852		

Seq. No.	55668	Seq. ID	OJ000303_20.0419.C26
Gene No.	116610	Strand	-
Start	308	End	3882
Name	OJ000303_20.0419.C26.o1.ts	Method	TBLASTX:Soybean
Start	3517	End	3873
GI	none	Score	123
Exons	3517..3726, 3517..3744, 3524..3745, 3727..3873, 3728..3871		

Seq. No.	55669	Seq. ID	OJ000303_20.0419.C27
Gene No.	116611	Strand	+
Start	8498	End	15927
Name	OJ000303_20.0419.C27.o2.np	Method	AAT/NAP
Start	8498	End	13109
GI	7211980	Score	649
Exons	8498..8590, 8639..10553, 10827..11012, 11202..11423, 12866..13109		
GI Descrip.	(AC004809) Strong similarity to the putative ubiquitin-specific protease F24L7.8 from A. thaliana gi 2914695 on BAC gb AC003974 and to ubiquitin carboxyl-terminal hydrolase family PF 00442 and PF 00443. ESTs gb Z17750 and gb Z17572 come from this gene		

Seq. No.	55669	Seq. ID	OJ000303_20.0419.C27
Gene No.	116611	Strand	+
Start	8498	End	15927
Name	OJ000303_20.0419.C27.o3.gs	Method	GENSCAN
Start	8498	End	14675
GI	none	Score	.82
Exons	8498..9341, 9395..9538, 9623..9865, 9896..11423, 12866..13094, 13902..14103, 14593..14675		

Seq. No.	55669	Seq. ID	OJ000303_20.0419.C27
Gene No.	116611	Strand	+
Start	8498	End	15927
Name	OJ000303_20.0419.C27.o1.gp	Method	AAT/GAP
Start	9662	End	9909
GI	none	Score	484
Exons	9662..9909		

Seq. No.	55669	Seq. ID	OJ000303_20.0419.C27
Gene No.	116611	Strand	+
Start	8498	End	15927
Name	OJ000303_20.0419.C27.o3.np	Method	AAT/NAP
Start	13826	End	15783
GI	7340860	Score	60
Exons	13826..13872, 14966..15139, 15417..15783		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55669	Seq. ID	OJ000303_20.0419.C27
Gene No.	116611	Strand	+
Start	8498	End	15927
Name	OJ000303_20.0419.C27.o4.gs	Method	GENSCAN
Start	15455	End	15927
GI	none	Score	.92
Exons	15455..15511, 15730..15927		

Seq. No.	55669	Seq. ID	OJ000303_20.0419.C27
Gene No.	116612	Strand	-
Start	806	End	3100
Name	OJ000303_20.0419.C27.o1.gs	Method	GENSCAN
Start	806	End	3100
GI	none	Score	.54
Exons	806..923, 1929..2020, 3035..3100		

Seq. No.	55669	Seq. ID	OJ000303_20.0419.C27
Gene No.	116613	Strand	-
Start	5564	End	7482
Name	OJ000303_20.0419.C27.o2.gs	Method	GENSCAN
Start	5564	End	7482
GI	none	Score	.54
Exons	5564..5740, 5766..5936, 6186..6229, 7146..7482		

Seq. No.	55669	Seq. ID	OJ000303_20.0419.C27
Gene No.	116613	Strand	-
Start	5564	End	7482
Name	OJ000303_20.0419.C27.o1.np	Method	AAT/NAP
Start	5643	End	7474
GI	6815052	Score	459
Exons	5643..5745, 7130..7220, 7302..7474		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	55669	Seq. ID	OJ000303_20.0419.C27
Gene No.	116614	Strand	
Start	9095	End	9480
Name	OJ000303_20.0419.C27.o1.tc	Method	TBLASTX:Cress
Start	9095	End	9480
GI	none	Score	136
Exons	9095..9328, 9157..9246, 9347..9400, 9354..9452, 9388..9480		

Seq. No.	55669	Seq. ID	OJ000303_20.0419.C27
Gene No.	116615	Strand	
Start	10564	End	11025
Name	OJ000303_20.0419.C27.o2.tm	Method	TBLASTX:Maize
Start	10564	End	11025
GI	none	Score	165
Exons	10564..10833, 10564..10698, 10594..10701, 10596..10706, 10597..10731, 10634..10705, 10676..10843, 10895..10969, 10896..10952, 10936..11025, 10937..11008		

Seq. No.	55669	Seq. ID	OJ000303_20.0419.C27
Gene No.	116616	Strand	
Start	11341	End	13102
Name	OJ000303_20.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	11341	End	13102

GI	none	Score	109
Exons	11341..11424, 11349..11426, 12864..12968, 12864..12983, 12975..13097, 13007..13102		

Seq. No.	55669	Seq. ID	OJ000303_20.0419.C27
Gene No.	116616	Strand	
Start	11341	End	13102
Name	OJ000303_20.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	11351	End	13089
GI	none	Score	105
Exons	11351..11422, 11353..11424, 11359..11424, 12863..13078, 12864..13088, 12865..13089		

Seq. No.	55670	Seq. ID	OJ000303_20.0419.C28
Gene No.	116617	Strand	+
Start	1	End	615
Name	OJ000303_20.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	326
GI	7486126	Score	196
Exons	1..326		
GI Descrip.	hypothetical protein F25G13.190 - Arabidopsis thaliana gi 5123951 emb CAB45509.1 (AL079349) putative protein [Arabidopsis thaliana] gi 7268012 emb CAB78352.1 (AL161535) putative protein [Arabidopsis thaliana]		

Seq. No.	55670	Seq. ID	OJ000303_20.0419.C28
Gene No.	116617	Strand	+
Start	1	End	615
Name	OJ000303_20.0419.C28.o1.gs	Method	GENSCAN
Start	30	End	615
GI	none	Score	.64
Exons	30..178, 207..615		

Seq. No.	55670	Seq. ID	OJ000303_20.0419.C28
Gene No.	116618	Strand	
Start	7202	End	7611
Name	OJ000303_20.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	7202	End	7611
GI	none	Score	133
Exons	7202..7402, 7203..7280, 7344..7409, 7527..7601, 7528..7611, 7531..7608		

Seq. No.	55671	Seq. ID	OJ000303_20.0419.C29
Gene No.	116619	Strand	+
Start	205	End	1805
Name	OJ000303_20.0419.C29.o1.gs	Method	GENSCAN
Start	205	End	1805
GI	none	Score	.81
Exons	205..294, 459..645, 1288..1805		

Seq. No.	55671	Seq. ID	OJ000303_20.0419.C29
Gene No.	116620	Strand	+
Start	4296	End	7414
Name	OJ000303_20.0419.C29.o3.gs	Method	GENSCAN
Start	4296	End	6378
GI	none	Score	.63
Exons	4296..4309, 4385..4545, 5406..5521, 5777..5846, 6296..6378		

Seq. No.	55671	Seq. ID	OJ000303_20.0419.C29
Gene No.	116620	Strand	+
Start	4296	End	7414
Name	OJ000303_20.0419.C29.o2.gp	Method	AAT/GAP
Start	4417	End	7414
GI	none	Score	1281
Exons	4417..4545, 5261..5521, 5777..5846, 6044..6117, 7255..7414		

Seq. No.	55671	Seq. ID	OJ000303_20.0419.C29
Gene No.	116620	Strand	+
Start	4296	End	7414
Name	OJ000303_20.0419.C29.o2.np	Method	AAT/NAP
Start	5916	End	7414
GI	6642645	Score	122
Exons	5916..5937, 7239..7414		
GI Descrip.	(AC012395) putative RING zinc finger protein [Arabidopsis thaliana]		

Seq. No.	55671	Seq. ID	OJ000303_20.0419.C29
Gene No.	116621	Strand	-
Start	3137	End	4176
Name	OJ000303_20.0419.C29.o2.tm	Method	TBLASTX:Maize
Start	3	End	701
GI	none	Score	117
Exons	3..74, 201..293, 202..294, 203..295, 453..680, 455..691, 456..701, 458..685		

Seq. No.	55671	Seq. ID	OJ000303_20.0419.C29
Gene No.	116621	Strand	-
Start	3137	End	4176
Name	OJ000303_20.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	2398	End	4143
GI	none	Score	117
Exons	2398..2490, 2402..2527, 2403..2498, 2403..2537, 3196..3357, 3197..3358, 3198..3359, 3235..3369, 3246..3359, 3360..3515, 3361..3606, 3362..3634, 3362..3604, 3804..3869, 3804..3878, 3805..3918, 3811..3948, 3815..3949, 4027..4143		

Seq. No.	55671	Seq. ID	OJ000303_20.0419.C29
Gene No.	116621	Strand	-
Start	3137	End	4176
Name	OJ000303_20.0419.C29.o2.gs	Method	GENSCAN
Start	3137	End	4176
GI	none	Score	.5
Exons	3137..3631, 3815..3974, 4013..4176		

Seq. No.	55671	Seq. ID	OJ000303_20.0419.C29
Gene No.	116621	Strand	-
Start	3137	End	4176
Name	OJ000303_20.0419.C29.o1.np	Method	AAT/NAP
Start	3197	End	3894
GI	6957701	Score	268
Exons	3197..3613, 3790..3894		
GI Descrip.	(AC021640) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55671	Seq. ID	OJ000303_20.0419.C29
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Gene No.	116621	Strand	-
Start	3137	End	4176
Name	OJ000303_20.0419.C29.o1.gp	Method	AAT/GAP
Start	3476	End	4167
GI	none	Score	920
Exons	3476..3605, 3815..4167		

Seq. No.	55671	Seq. ID	OJ000303_20.0419.C29
Gene No.	116622	Strand	
Start	5258	End	5848
Name	OJ000303_20.0419.C29.o4.tm	Method	TBLASTX:Maize
Start	5258	End	5848
GI	none	Score	222
Exons	5258..5521, 5299..5520, 5775..5846, 5780..5845, 5801..5848		

Seq. No.	55671	Seq. ID	OJ000303_20.0419.C29
Gene No.	116623	Strand	
Start	7279	End	7413
Name	OJ000303_20.0419.C29.o3.tm	Method	TBLASTX:Maize
Start	7279	End	7413
GI	none	Score	234
Exons	7279..7413, 7279..7410, 7280..7411, 7281..7412		

Seq. No.	55672	Seq. ID	OJ000303_20.0419.C30
Gene No.	116624	Strand	-
Start	1	End	309
Name	OJ000303_20.0419.C30.o1.gp	Method	AAT/GAP
Start	1	End	309
GI	none	Score	570
Exons	1..309		

Seq. No.	55672	Seq. ID	OJ000303_20.0419.C30
Gene No.	116625	Strand	-
Start	891	End	4720
Name	OJ000303_20.0419.C30.o2.gp	Method	AAT/GAP
Start	538	End	4720
GI	194_1.R1084	Score	2265
Exons	538..1010, 1115..1262, 1658..1702, 1830..1944, 2037..2158, 2871..2915, 3550..3589, 4329..4435, 4566..4720		
GI Descrip.	'3334144/sp P93411 CG1C ORYSA 1.0e-147 G1/S-SPECIFIC CYCLIN C-TYPE >gi_1695698_dbj_BAA13181_ (D86925) C-type cyclin [Oryza sativa]'		

Seq. No.	55672	Seq. ID	OJ000303_20.0419.C30
Gene No.	116625	Strand	-
Start	891	End	4720
Name	OJ000303_20.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	884	End	4602
GI	none	Score	134
Exons	884..1006, 893..1009, 894..1010, 1110..1262, 1112..1261, 1118..1264, 1138..1269, 1642..1698, 1644..1697, 1657..1704, 1658..1708, 1827..1931, 1828..1941, 1829..1942, 2014..2160, 2025..2156, 2035..2157, 2036..2161, 3468..3587, 4330..4392, 4330..4446, 4513..4602, 4568..4600		

Seq. No.	55672	Seq. ID	OJ000303_20.0419.C30
Gene No.	116625	Strand	-

Start	891	End	4720
Name	OJ000303_20.0419.C30.o1.gs	Method	GENSCAN
Start	891	End	2151
GI	none	Score	.83
Exons	891..1010, 1115..1262, 1658..1828, 1830..1944, 2037..2151		

Seq. No.	55672	Seq. ID	OJ000303_20.0419.C30
Gene No.	116625	Strand	-
Start	891	End	4720
Name	OJ000303_20.0419.C30.o1.np	Method	AAT/NAP
Start	894	End	4597
GI	3334144	Score	1093
Exons	894..1010, 1115..1262, 1658..1702, 1830..1944, 2037..2158, 2871..2915, 3550..3589, 4329..4435, 4566..4597		
GI Descrip.	GI/S-SPECIFIC CYCLIN C-TYPE gi 1695698 dbj BAA13181 (D86925) C-type cyclin [Oryza sativa]		

Seq. No.	55672	Seq. ID	OJ000303_20.0419.C30
Gene No.	116625	Strand	-
Start	891	End	4720
Name	OJ000303_20.0419.C30.o1.tc	Method	TBLASTX:Cress
Start	960	End	1960
GI	none	Score	151
Exons	960..1010, 1112..1261, 1113..1262, 1835..1864, 1836..1865, 1871..1945, 1871..1960		

Seq. No.	55672	Seq. ID	OJ000303_20.0419.C30
Gene No.	116625	Strand	-
Start	891	End	4720
Name	OJ000303_20.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	1133	End	4597
GI	none	Score	123
Exons	1133..1261, 1134..1262, 1672..1701, 1827..1940, 1835..1942, 1841..1939, 1846..1953, 2023..2157, 2034..2156, 2041..2160, 2045..2161, 2870..2917, 4333..4434, 4565..4597		

Seq. No.	55673	Seq. ID	OJ000303_20.0419.C31
Gene No.	116626	Strand	-
Start	933	End	1247
Name	OJ000303_20.0419.C31.o1.gs	Method	GENSCAN
Start	933	End	1247
GI	none	Score	.89
Exons	933..1247		

Seq. No.	55673	Seq. ID	OJ000303_20.0419.C31
Gene No.	116627	Strand	-
Start	2946	End	5122
Name	OJ000303_20.0419.C31.o2.gs	Method	GENSCAN
Start	2946	End	3171
GI	none	Score	.54
Exons	2946..3082, 3120..3171		

Seq. No.	55673	Seq. ID	OJ000303_20.0419.C31
Gene No.	116627	Strand	-
Start	2946	End	5122
Name	OJ000303_20.0419.C31.o1.np	Method	AAT/NAP
Start	3039	End	5122

GI 7523517 Score 308
 Exons 3039..3095, 3821..3914, 4628..4676, 4824..5122
 GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. No. 55673 Seq. ID OJ000303_20.0419.C31
 Gene No. 116627 Strand -
 Start 2946 End 5122
 Name OJ000303_20.0419.C31.o3.gs Method GENSCAN
 Start 4874 End 5122
 GI none Score .59
 Exons 4874..5122

Seq. No. 55674 Seq. ID OJ000303_20.0419.C32
 Gene No. 116628 Strand +
 Start 1006 End 1857
 Name OJ000303_20.0419.C32.o1.gs Method GENSCAN
 Start 1006 End 1857
 GI none Score .9
 Exons 1006..1035, 1705..1857

Seq. No. 55674 Seq. ID OJ000303_20.0419.C32
 Gene No. 116629 Strand +
 Start 2710 End 4179
 Name OJ000303_20.0419.C32.o1.np Method AAT/NAP
 Start 2409 End 4087
 GI 5281036 Score 1291
 Exons 2409..2595, 2958..4087
 GI Descrip. (AL080318) nucleotide sugar epimerase-like protein [Arabidopsis thaliana]

Seq. No. 55674 Seq. ID OJ000303_20.0419.C32
 Gene No. 116629 Strand +
 Start 2710 End 4179
 Name OJ000303_20.0419.C32.o1.gp Method AAT/GAP
 Start 2598 End 2969
 GI none Score 697
 Exons 2598..2969

Seq. No. 55674 Seq. ID OJ000303_20.0419.C32
 Gene No. 116629 Strand +
 Start 2710 End 4179
 Name OJ000303_20.0419.C32.o2.gs Method GENSCAN
 Start 2710 End 4179
 GI none Score .88
 Exons 2710..4179

Seq. No. 55674 Seq. ID OJ000303_20.0419.C32
 Gene No. 116629 Strand +
 Start 2710 End 4179
 Name OJ000303_20.0419.C32.o2.gp Method AAT/GAP
 Start 3147 End 3723
 GI 41448_2.R1084 Score 931
 Exons 3147..3723
 GI Descrip. '3193316 3:0e-40 (AF069299) contains similarity to nucleotide sugar epimerases [Arabidopsis thaliana]'

Seq. No. 55674 Seq. ID OJ000303_20.0419.C32

Gene No.	116630	Strand	-
Start	3454	End	4481
Name	OJ000303_20.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	2776	End	3654
GI	none	Score	108
Exons	2776..2871, 3003..3125, 3010..3240, 3238..3324, 3241..3396, 3276..3395, 3384..3653, 3394..3654		

Seq. No.	55674	Seq. ID	OJ000303_20.0419.C32
Gene No.	116630	Strand	-
Start	3454	End	4481
Name	OJ000303_20.0419.C32.o2.tc	Method	TBLASTX:Cress
Start	2776	End	3195
GI	none	Score	88
Exons	2776..2871, 2997..3125, 3010..3195		

Seq. No.	55674	Seq. ID	OJ000303_20.0419.C32
Gene No.	116630	Strand	-
Start	3454	End	4481
Name	OJ000303_20.0419.C32.o2.tm	Method	TBLASTX:Maize
Start	3070	End	3276
GI	none	Score	287
Exons	3070..3276, 3072..3125		

Seq. No.	55674	Seq. ID	OJ000303_20.0419.C32
Gene No.	116630	Strand	-
Start	3454	End	4481
Name	OJ000303_20.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	3199	End	4086
GI	none	Score	229
Exons	3199..3396, 3276..3395, 3384..3668, 3397..3768, 3604..3744, 3720..3767, 3820..3858, 3825..3857, 3858..4040, 3859..4086		

Seq. No.	55674	Seq. ID	OJ000303_20.0419.C32
Gene No.	116630	Strand	-
Start	3454	End	4481
Name	OJ000303_20.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	3340	End	4062
GI	none	Score	63
Exons	3340..3390, 3390..3767, 3394..3768, 3801..3899, 3816..4040, 3817..4062		

Seq. No.	55674	Seq. ID	OJ000303_20.0419.C32
Gene No.	116630	Strand	-
Start	3454	End	4481
Name	OJ000303_20.0419.C32.o3.gp	Method	AAT/GAP
Start	3454	End	3967
GI	41448_1.R1084	Score	836
Exons	3454..3967		
GI Descrip.	'5281036/emb CAB45972.1 1.0e-39 (AL080318) nucleotide sugar epimerase-like protein [Arabidopsis thaliana]'		

Seq. No.	55674	Seq. ID	OJ000303_20.0419.C32
Gene No.	116630	Strand	-
Start	3454	End	4481
Name	OJ000303_20.0419.C32.o2.ts	Method	TBLASTX:Soybean
Start	3720	End	4086

GI	none	Score	86
Exons	3720..3767, 3721..3768, 3801..3866, 3816..4040, 3817..4086		

Seq. No.	55674	Seq. ID	OJ000303_20.0419.C32
Gene No.	116630	Strand	-
Start	3454	End	4481
Name	OJ000303_20.0419.C32.o4.gp	Method	AAT/GAP
Start	3841	End	4481
GI	none	Score	1200
Exons	3841..4481		

Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116631	Strand	+
Start	2063	End	2416
Name	OJ000303_20.0419.C33.o2.gs	Method	GENSCAN
Start	2063	End	2416
GI	none	Score	.45
Exons	2063..2416		

Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116632	Strand	+
Start	4106	End	4570
Name	OJ000303_20.0419.C33.o1.gp	Method	AAT/GAP
Start	4106	End	4570
GI	none	Score	915
Exons	4106..4570		

Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116633	Strand	+
Start	8677	End	8886
Name	OJ000303_20.0419.C33.o4.gs	Method	GENSCAN
Start	8677	End	8886
GI	none	Score	.97
Exons	8677..8886		

Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116634	Strand	-
Start	3804	End	7699
Name	OJ000303_20.0419.C33.o3.gs	Method	GENSCAN
Start	3804	End	7699
GI	none	Score	.94
Exons	3804..3808, 4465..7699		

Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116634	Strand	-
Start	3804	End	7699
Name	OJ000303_20.0419.C33.o2.gp	Method	AAT/GAP
Start	5813	End	6348
GI	LIB3475-007-P1-K1-D9	Score	1060
Exons	5813..6348		
GI Descrip.	'2160156 2.0e-81 (AC000132) Strong similarity to S. pombe leucyl-tRNA synthetase (gb_Z73100). [Arabidopsis thaliana]'		

Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o4.tm	Method	TBLASTX:Maize

Start	1073	End	1396
GI	none	Score	44
Exons	1073..1114, 1076..1153, 1138..1392, 1154..1396		
Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o1.tw	Method	TBLASTX:Wheat
Start	4409	End	4775
GI	none	Score	336
Exons	4409..4774, 4421..4771, 4422..4775		
Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	4434	End	6277
GI	none	Score	513
Exons	4434..4898, 4436..4951, 4437..4898, 4877..6277, 4893..6275, 4900..6276		
Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o2.ts	Method	TBLASTX:Soybean
Start	4436	End	5089
GI	none	Score	453
Exons	4436..5089, 4446..5066, 4946..5080		
Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o2.tc	Method	TBLASTX:Cress
Start	4437	End	4807
GI	none	Score	214
Exons	4437..4802, 4439..4807		
Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o4.ts	Method	TBLASTX:Soybean
Start	5171	End	5512
GI	none	Score	228
Exons	5171..5512, 5172..5510, 5174..5512		
Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o1.ts	Method	TBLASTX:Soybean
Start	5513	End	6275
GI	none	Score	255
Exons	5513..5746, 5514..5744, 5741..6274, 5745..6275		
Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o3.ts	Method	TBLASTX:Soybean

Start	6275	End	6612
GI	none	Score	280
Exons	6275..6610, 6342..6611, 6409..6612		

Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o3.tm	Method	TBLASTX:Maize
Start	6314	End	6625
GI	none	Score	386
Exons	6314..6625, 6342..6623		

Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o1.tc	Method	TBLASTX:Cress
Start	6839	End	7202
GI	none	Score	311
Exons	6839..7201, 6849..7202		

Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o3.tc	Method	TBLASTX:Cress
Start	7404	End	7675
GI	none	Score	132
Exons	7404..7625, 7406..7666, 7406..7537, 7592..7675		

Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o7.ts	Method	TBLASTX:Soybean
Start	7418	End	7682
GI	none	Score	120
Exons	7418..7537, 7422..7556, 7592..7681, 7593..7682		

Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o5.gs	Method	GENSCAN
Start	9839	End	10975
GI	none	Score	.93
Exons	9839..10564, 10862..10975		

Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o2.tm	Method	TBLASTX:Maize
Start	9849	End	10564
GI	none	Score	173
Exons	9849..10055, 9851..10102, 9851..10114, 9852..10130, 10100..10252, 10104..10226, 10259..10375, 10263..10325, 10337..10378, 10436..10564, 10440..10559		

Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975

Name	OJ000303_20.0419.C33.o4.tc	Method	TBLASTX:Cress
Start	9857	End	10037
GI	none	Score	136
Exons	9857..10024, 9858..10037		
Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o6.ts	Method	TBLASTX:Soybean
Start	9857	End	10073
GI	none	Score	129
Exons	9857..10057, 9858..9968, 9993..10073		
Seq. No.	55675	Seq. ID	OJ000303_20.0419.C33
Gene No.	116635	Strand	-
Start	9839	End	10975
Name	OJ000303_20.0419.C33.o5.ts	Method	TBLASTX:Soybean
Start	10073	End	10558
GI	none	Score	85
Exons	10073..10105, 10098..10226, 10100..10255, 10259..10378, 10263..10325, 10496..10558		
Seq. No.	55676	Seq. ID	OJ000303_20.0419.C34
Gene No.	116636	Strand	-
Start	136	End	1288
Name	OJ000303_20.0419.C34.o1.tc	Method	TBLASTX:Cress
Start	133	End	450
GI	none	Score	72
Exons	133..195, 134..208, 137..298, 138..299, 264..299, 394..450		
Seq. No.	55676	Seq. ID	OJ000303_20.0419.C34
Gene No.	116636	Strand	-
Start	136	End	1288
Name	OJ000303_20.0419.C34.o1.tm	Method	TBLASTX:Maize
Start	133	End	587
GI	none	Score	157
Exons	133..213, 137..280, 137..298, 138..311, 394..450, 398..451, 570..587		
Seq. No.	55676	Seq. ID	OJ000303_20.0419.C34
Gene No.	116636	Strand	-
Start	136	End	1288
Name	OJ000303_20.0419.C34.o1.ts	Method	TBLASTX:Soybean
Start	134	End	451
GI	none	Score	125
Exons	134..298, 135..311, 394..450, 398..451		
Seq. No.	55676	Seq. ID	OJ000303_20.0419.C34
Gene No.	116636	Strand	-
Start	136	End	1288
Name	OJ000303_20.0419.C34.o1.gs	Method	GENSCAN
Start	136	End	1288
GI	none	Score	.66
Exons	136..277, 394..673, 1168..1288		
Seq. No.	55676	Seq. ID	OJ000303_20.0419.C34
Gene No.	116636	Strand	-

Start	136	End	1288
Name	OJ000303_20.0419.C34.o1.np	Method	AAT/NAP
Start	136	End	459
GI	7430959	Score	191
Exons	136..277, 394..459		
GI Descrip.	hypothetical protein F25G13.100 - Arabidopsis thaliana gi 5123942 emb CAB45500.1 (AL079349) putative protein [Arabidopsis thaliana] gi 7268003 emb CAB78343.1 (AL161535) putative protein [Arabidopsis thaliana]		

Seq. No.	55677	Seq. ID	OJ000303_20.0419.C35
Gene No.	116637	Strand	+
Start	133	End	1123
Name	OJ000303_20.0419.C35.o1.np	Method	AAT/NAP
Start	133	End	1123
GI	6069646	Score	464
Exons	133..1123		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	55677	Seq. ID	OJ000303_20.0419.C35
Gene No.	116638	Strand	-
Start	1549	End	1665
Name	OJ000303_20.0419.C35.o2.tm	Method	TBLASTX:Maize
Start	114	End	461
GI	none	Score	219
Exons	114..371, 128..358, 153..362, 378..461		

Seq. No.	55677	Seq. ID	OJ000303_20.0419.C35
Gene No.	116638	Strand	-
Start	1549	End	1665
Name	OJ000303_20.0419.C35.o1.tm	Method	TBLASTX:Maize
Start	563	End	1021
GI	none	Score	62
Exons	563..640, 652..885, 653..883, 908..1021		

Seq. No.	55677	Seq. ID	OJ000303_20.0419.C35
Gene No.	116638	Strand	-
Start	1549	End	1665
Name	OJ000303_20.0419.C35.o1.tw	Method	TBLASTX:Wheat
Start	652	End	844
GI	none	Score	201
Exons	652..810, 656..844		

Seq. No.	55677	Seq. ID	OJ000303_20.0419.C35
Gene No.	116638	Strand	-
Start	1549	End	1665
Name	OJ000303_20.0419.C35.o2.gs	Method	GENSCAN
Start	1549	End	1665
GI	none	Score	.76
Exons	1549..1665		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116639	Strand	+

Start	2986	End	14041
Name	OJ000303_20.0419.C36.o1.gp	Method	AAT/GAP
Start	2825	End	3266
GI	701961	Score	394
Exons	2825..3070, 3232..3266		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116639	Strand	+
Start	2986	End	14041
Name	OJ000303_20.0419.C36.o2.gs	Method	GENSCAN
Start	2986	End	6186
GI	none	Score	.77
Exons	2986..3070, 3976..4082, 4690..5508, 5854..6186		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116639	Strand	+
Start	2986	End	14041
Name	OJ000303_20.0419.C36.o2.np	Method	AAT/NAP
Start	4723	End	10629
GI	5803254	Score	931
Exons	4723..5508, 5609..5761, 10261..10629		
GI Descrip.	(AP000399) ESTs C97429(C60159),D22427(C11106), AU078031(E31854),D15683(C1084) correspond to a region of the predicted gene; hypothetical protein [Oryza sativa]		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116639	Strand	+
Start	2986	End	14041
Name	OJ000303_20.0419.C36.o3.gs	Method	GENSCAN
Start	8014	End	14041
GI	none	Score	.4
Exons	8014..8089, 8283..8392, 9093..9773, 10261..10489, 10791..10821, 11237..11318, 12539..12847, 13713..13839, 13914..14041		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116640	Strand	+
Start	15782	End	20000
Name	OJ000303_20.0419.C36.o4.gs	Method	GENSCAN
Start	15782	End	20000
GI	none	Score	.46
Exons	15782..15887, 16033..16670, 17507..17660, 17962..18068, 18461..19141, 19377..19529, 19623..20000		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116640	Strand	+
Start	15782	End	20000
Name	OJ000303_20.0419.C36.o5.np	Method	AAT/NAP
Start	18494	End	19997
GI	5803254	Score	973
Exons	18494..19279, 19377..19529, 19623..19997		
GI Descrip.	(AP000399) ESTs C97429(C60159),D22427(C11106), AU078031(E31854),D15683(C1084) correspond to a region of the predicted gene; hypothetical protein [Oryza sativa]		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116641	Strand	-
Start	1	End	1133

Name	OJ000303_20.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	746
GI	7430959	Score	243
Exons	1..189, 460..601, 681..746		
GI Descrip.	hypothetical protein F25G13.100 - Arabidopsis thaliana gi 5123942 emb CAB45500.1 (AL079349) putative protein [Arabidopsis thaliana] gi 7268003 emb CAB78343.1 (AL161535)- putative protein [Arabidopsis thaliana]		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116641	Strand	-
Start	1	End	1133
Name	OJ000303_20.0419.C36.o1.gs	Method	GENSCAN
Start	101	End	1133
GI	none	Score	.92
Exons	101..189, 460..601, 681..902, 1119..1133		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116642	Strand	-
Start	11100	End	15771
Name	OJ000303_20.0419.C36.o3.np	Method	AAT/NAP
Start	11100	End	15771
GI	6069646	Score	446
Exons	11100..11713, 12517..12859, 13142..13315, 15706..15771		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116643	Strand	-
Start	20372	End	20426
Name	OJ000303_20.0419.C36.o2.gp	Method	AAT/GAP
Start	20372	End	20426
GI	20723_1.R1084	Score	55
Exons	20372..20426		
GI Descrip.	'2149018/gb U70541 OSU70541 8.0e-14 Oryza sativa putative ADP-glucose pyrophosphorylase subunit SH2 and putative NADPH-dependent reductase A1 genes, complete cds'		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116644	Strand	-
Start	20911	End	21361
Name	OJ000303_20.0419.C36.o1.tc	Method	TBLASTX:Cress
Start	455	End	722
GI	none	Score	136
Exons	455..607, 456..602, 681..722		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116644	Strand	-
Start	20911	End	21361
Name	OJ000303_20.0419.C36.o2.ts	Method	TBLASTX:Soybean
Start	455	End	722
GI	none	Score	136
Exons	455..607, 456..602, 470..604, 681..722		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116644	Strand	-
Start	20911	End	21361
Name	OJ000303_20.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	455	End	21361
GI	none	Score	135
Exons	455..607, 456..602, 485..613, 681..722, 20837..20917, 20838..20891, 20929..21036, 20929..21138, 20930..21079, 21151..21231, 21151..21360, 21152..21361		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116644	Strand	-
Start	20911	End	21361
Name	OJ000303_20.0419.C36.o2.tm	Method	TBLASTX:Maize
Start	5126	End	19532
GI	none	Score	75
Exons	5126..5338, 5130..5345, 5130..5351, 5131..5349, 5236..5358, 5324..5446, 5394..5423, 5430..5495, 5431..5493, 5442..5510, 5443..5499, 5585..5671, 5588..5671, 5674..5766, 5675..5764, 9529..9699, 9531..9740, 9533..9754, 9534..9752, 9823..9903, 9835..9912, 9845..9913, 9992..10075, 10004..10087, 10012..10086, 10076..10195, 10102..10170, 10315..10365, 18900..18983, 18902..19132, 18904..19128, 19123..19188, 19211..19264, 19214..19270, 19368..19451, 19379..19438, 19418..19459, 19449..19532		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116644	Strand	-
Start	20911	End	21361
Name	OJ000303_20.0419.C36.o5.tm	Method	TBLASTX:Maize
Start	5905	End	19987
GI	none	Score	125
Exons	5905..6054, 5907..6044, 6051..6173, 6076..6174, 10365..10460, 10366..10461, 10491..10619, 10512..10619, 10516..10623, 19674..19826, 19676..19777, 19696..19821, 19830..19892, 19874..19984, 19896..19985, 19898..19987, 19918..19986		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116644	Strand	-
Start	20911	End	21361
Name	OJ000303_20.0419.C36.o4.tm	Method	TBLASTX:Maize
Start	7336	End	11720
GI	none	Score	74
Exons	7336..7416, 11208..11324, 11325..11558, 11571..11720		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116644	Strand	-
Start	20911	End	21361
Name	OJ000303_20.0419.C36.o1.tw	Method	TBLASTX:Wheat
Start	7348	End	11516
GI	none	Score	122
Exons	7348..7464, 11127..11327, 11403..11516		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116644	Strand	-
Start	20911	End	21361
Name	OJ000303_20.0419.C36.o3.tm	Method	TBLASTX:Maize

Start	12931	End	13319
GI	none	Score	62
Exons	12931..13131, 12931..13140, 12932..13141, 13133..13318, 13154..13180, 13155..13319		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116644	Strand	-
Start	20911	End	21361
Name	OJ000303_20.0419.C36.o6.np	Method	AAT/NAP
Start	20843	End	21361
GI	7430959	Score	498
Exons	20843..21361		
GI Descrip.	hypothetical protein F25G13.100 - Arabidopsis thaliana gi 5123942 emb CAB45500.1 (AL079349) putative protein [Arabidopsis thaliana] gi 7268003 emb CAB78343.1 (AL161535) putative protein [Arabidopsis thaliana]		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116644	Strand	-
Start	20911	End	21361
Name	OJ000303_20.0419.C36.o5.gs	Method	GENSCAN
Start	20911	End	21312
GI	none	Score	1
Exons	20911..21312		

Seq. No.	55678	Seq. ID	OJ000303_20.0419.C36
Gene No.	116644	Strand	-
Start	20911	End	21361
Name	OJ000303_20.0419.C36.o1.ts	Method	TBLASTX:Soybean
Start	21061	End	21360
GI	none	Score	69
Exons	21061..21138, 21151..21360, 21152..21214, 21275..21355		

Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116645	Strand	+
Start	5279	End	7693
Name	OJ000303_20.0419.C37.o2.np	Method	AAT/NAP
Start	5279	End	7636
GI	322641	Score	1039
Exons	5279..5351, 6258..7636		
GI Descrip.	beta-1,3-glucanase homolog (clone A6) - rape (fragment) gi 17738 emb CAA49513 (X69887) beta-1,3-glucanase homologue [Brassica napus]		

Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116645	Strand	+
Start	5279	End	7693
Name	OJ000303_20.0419.C37.o1.gp	Method	AAT/GAP
Start	5799	End	6251
GI	none	Score	882
Exons	5799..6251		

Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116645	Strand	+
Start	5279	End	7693
Name	OJ000303_20.0419.C37.o3.gs	Method	GENSCAN
Start	6108	End	7693

GI	none	Score	.85
Exons	6108..6159, 6249..7693		
Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116646	Strand	-
Start	1	End	441
Name	OJ000303_20.0419.C37.o1.np	Method	AAT/NAP
Start	1	End	435
GI	7430959	Score	178
Exons	1..72, 116..257, 370..435		
GI Descrip.	hypothetical protein F25G13.100 - Arabidopsis thaliana gi 5123942 emb CAB45500.1 (AL079349) putative protein [Arabidopsis thaliana] gi 7268003 emb CAB78343.1 (AL161535) putative protein [Arabidopsis thaliana]		

Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116646	Strand	-
Start	1	End	441
Name	OJ000303_20.0419.C37.o1.gs	Method	GENSCAN
Start	116	End	441
GI	none	Score	.93
Exons	116..257, 370..441		

Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116647	Strand	-
Start	6871	End	7606
Name	OJ000303_20.0419.C37.o4.tm	Method	TBLASTX:Maize
Start	71	End	445
GI	none	Score	172
Exons	71..199, 84..263, 111..263, 370..411, 371..445, 371..445		

Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116647	Strand	-
Start	6871	End	7606
Name	OJ000303_20.0419.C37.o2.tc	Method	TBLASTX:Cress
Start	111	End	411
GI	none	Score	85
Exons	111..263, 118..231, 370..411		

Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116647	Strand	-
Start	6871	End	7606
Name	OJ000303_20.0419.C37.o3.ts	Method	TBLASTX:Soybean
Start	111	End	411
GI	none	Score	78
Exons	111..263, 112..222, 370..411		

Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116647	Strand	-
Start	6871	End	7606
Name	OJ000303_20.0419.C37.o5.tm	Method	TBLASTX:Maize
Start	3226	End	3670
GI	none	Score	90
Exons	3226..3291, 3228..3302, 3386..3481, 3386..3463, 3394..3465, 3572..3670, 3589..3669, 3590..3670		

Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
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Gene No.-	116647	Strand	-
Start	6871	End	7606
Name	OJ000303_20.0419.C37.o1.tm	Method	TBLASTX:Maize
Start	6224	End	7048
GI	none	Score	591
Exons	6224..6721, 6292..6720, 6760..6873, 6761..6898, 6860..6922, 6917..7048, 6943..7047		

Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116647	Strand	-
Start	6871	End	7606
Name	OJ000303_20.0419.C37.o2.ts	Method	TBLASTX:Soybean
Start	6254	End	6898
GI	none	Score	248
Exons	6254..6589, 6283..6465, 6602..6655, 6761..6898		

Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116647	Strand	-
Start	6871	End	7606
Name	OJ000303_20.0419.C37.o1.tw	Method	TBLASTX:Wheat
Start	6275	End	6589
GI	none	Score	198
Exons	6275..6589, 6386..6532		

Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116647	Strand	-
Start	6871	End	7606
Name	OJ000303_20.0419.C37.o1.tc	Method	TBLASTX:Cress
Start	6287	End	7600
GI	none	Score	243
Exons	6287..6586, 6620..6718, 6761..6898, 6920..7183, 7138..7284, 7139..7285, 7328..7363, 7382..7600, 7387..7530		

Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116647	Strand	-
Start	6871	End	7606
Name	OJ000303_20.0419.C37.o2.gp	Method	AAT/GAP
Start	6871	End	7287
GI	uC-osroM202037b04a1	Score	814
Exons	6871..7287		
GI Descrip.	'6041834/gb AAF02143.1 AC009853_3 6.0e-37 (AC009853) putative glucan endo-1-3-beta-glucosidase [Arabidopsis thaliana]'		

Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116647	Strand	-
Start	6871	End	7606
Name	OJ000303_20.0419.C37.o1.ts	Method	TBLASTX:Soybean
Start	6926	End	7603
GI	none	Score	236
Exons	6926..7138, 7003..7074, 7138..7374, 7139..7375, 7387..7569, 7391..7603		

Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116647	Strand	-
Start	6871	End	7606
Name	OJ000303_20.0419.C37.o2.tw	Method	TBLASTX:Wheat
Start	7088	End	7282

GI	none	Score	185
Exons	7088..7282, 7138..7281		
Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116647	Strand	-
Start	6871	End	7606
Name	OJ000303_20.0419.C37.o3.tm	Method	TBLASTX:Maize
Start	7100	End	7285
GI	none	Score	316
Exons	7100..7285, 7135..7284, 7211..7285		
Seq. No.	55679	Seq. ID	OJ000303_20.0419.C37
Gene No.	116647	Strand	-
Start	6871	End	7606
Name	OJ000303_20.0419.C37.o2.tm	Method	TBLASTX:Maize
Start	7357	End	7606
GI	none	Score	376
Exons	7357..7578, 7358..7603, 7532..7606		
Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116648	Strand	+
Start	235	End	5724
Name	OJ000303_20.0419.C38.o1.gs	Method	GENSCAN
Start	235	End	5724
GI	none	Score	.74
Exons	235..376, 468..566, 1246..1378, 1802..1842, 2534..2638, 2725..3924, 4607..5724		
Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116648	Strand	+
Start	235	End	5724
Name	OJ000303_20.0419.C38.o1.gp	Method	AAT/GAP
Start	3296	End	3666
GI	5803334	Score	686
Exons	3296..3666		
Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116649	Strand	+
Start	7375	End	11807
Name	OJ000303_20.0419.C38.o2.gs	Method	GENSCAN
Start	7375	End	11807
GI	none	Score	.48
Exons	7375..7763, 8163..8293, 8536..8679, 8996..9268, 9374..9561, 9718..9835, 9954..10147, 11357..11538, 11678..11807		
Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116649	Strand	+
Start	7375	End	11807
Name	OJ000303_20.0419.C38.o1.np	Method	AAT/NAP
Start	10058	End	11804
GI	7441093	Score	536
Exons	10058..10147, 11357..11538, 11678..11804		
GI Descrip.	ribosomal protein L32, cytosolic - Arabidopsis thaliana gi 5816996 emb CAB53651.1 (AL110123) ribosomal protein L32-like protein [Arabidopsis thaliana] gi 7268562 emb CAB78812.1 (AL161547) ribosomal protein L32-like protein [Arabidopsis thaliana]		

Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116650	Strand	+
Start	13041	End	15483
Name	OJ000303_20.0419.C38.o3.tm	Method	TBLASTX:Maize
Start	5322	End	5725
GI	none	Score	59
Exons	5322..5411, 5323..5412, 5409..5612, 5442..5603, 5609..5719, 5611..5724, 5622..5717, 5624..5725		

Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116650	Strand	+
Start	13041	End	15483
Name	OJ000303_20.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	9891	End	11811
GI	none	Score	44
Exons	9891..9914, 9892..9918, 9967..10158, 9977..10147, 11354..11545, 11359..11556, 11360..11539, 11663..11767, 11673..11807, 11673..11792, 11674..11811, 11674..11808		

Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116650	Strand	+
Start	13041	End	15483
Name	OJ000303_20.0419.C38.o1.tw	Method	TBLASTX:Wheat
Start	10049	End	11777
GI	none	Score	73
Exons	10049..10147, 10057..10158, 11359..11538, 11360..11539, 11673..11777, 11674..11775		

Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116650	Strand	+
Start	13041	End	15483
Name	OJ000303_20.0419.C38.o2.tc	Method	TBLASTX:Cress
Start	10057	End	11808
GI	none	Score	68
Exons	10057..10131, 11354..11557, 11355..11474, 11359..11586, 11360..11539, 11673..11807, 11673..11792, 11674..11808		

Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116650	Strand	+
Start	13041	End	15483
Name	OJ000303_20.0419.C38.o2.ts	Method	TBLASTX:Soybean
Start	10057	End	11807
GI	none	Score	113
Exons	10057..10128, 11349..11456, 11356..11538, 11356..11538, 11357..11539, 11673..11807, 11675..11767		

Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116650	Strand	+
Start	13041	End	15483
Name	OJ000303_20.0419.C38.o4.gp	Method	AAT/GAP
Start	13019	End	15483
GI	17264_1.R1084	Score	1102
Exons	13019..13095, 13199..13254, 14537..14599, 14703..14793, 14902..15006, 15237..15483		
GI Descrip.	'2129622/pir S71237 1.0e-58 immunophilin FKBP15-1 - Arabidopsis thaliana >gi_1272406 (U52046) immunophilin [Arabidopsis		

thaliana]'

Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116650	Strand	+
Start	13041	End	15483
Name	OJ000303_20.0419.C38.o3.gs	Method	GENSCAN
Start	13041	End	15331
GI	none	Score	.97
Exons	13041..13095, 13148..13254, 14537..14599, 14703..14793, 14902..15006, 15237..15331		

Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116650	Strand	+
Start	13041	End	15483
Name	OJ000303_20.0419.C38.o2.tw	Method	TBLASTX:Wheat
Start	13155	End	14996
GI	none	Score	72
Exons	13155..13253, 13198..13254, 14531..14608, 14534..14596, 14691..14807, 14702..14806, 14900..14995, 14901..14996		

Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116650	Strand	+
Start	13041	End	15483
Name	OJ000303_20.0419.C38.o2.np	Method	AAT/NAP
Start	13159	End	15319
GI	2129622	Score	438
Exons	13159..13254, 14537..14599, 14703..14793, 14902..15006, 15237..15319		
GI Descrip.	immunophilin FKBP15-1 - Arabidopsis thaliana gi 1272406 (U52046) immunophilin [Arabidopsis thaliana]		

Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116650	Strand	+
Start	13041	End	15483
Name	OJ000303_20.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	13192	End	15280
GI	none	Score	74
Exons	13192..13254, 14531..14608, 14536..14577, 14691..14807, 14702..14806, 14900..14977, 14900..15007, 14901..15008, 15236..15280		

Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116650	Strand	+
Start	13041	End	15483
Name	OJ000303_20.0419.C38.o2.tm	Method	TBLASTX:Maize
Start	13198	End	15300
GI	none	Score	76
Exons	13198..13254, 13204..13254, 14531..14608, 14534..14599, 14691..14807, 14702..14794, 14900..15007, 14901..15008, 14905..15009, 15235..15288, 15236..15298, 15238..15300		

Seq. No.	55680	Seq. ID	OJ000303_20.0419.C38
Gene No.	116650	Strand	+
Start	13041	End	15483
Name	OJ000303_20.0419.C38.o1.tc	Method	TBLASTX:Cress
Start	13204	End	15316
GI	none	Score	74

Exons 13204..13254, 14531..14608, 14534..14596, 14691..14807,
14702..14794, 14900..15007, 14901..15008, 14905..15015,
15236..15298, 15236..15316

Seq. No.	55681	Seq. ID	OJ000303_20.0419.C39
Gene No.	116651	Strand	+
Start	100	End	357
Name	OJ000303_20.0419.C39.o1.gs	Method	GENSCAN
Start	100	End	357
GI	none	Score	.61
Exons	100..357		

Seq. No.	55682	Seq. ID	OJ000303_20.0419.C41
Gene No.	116652	Strand	-
Start	543	End	5568
Name	OJ000303_20.0419.C41.o1.gp	Method	AAT/GAP
Start	93	End	532
GI	3760163	Score	765
Exons	93..532		

Seq. No.	55682	Seq. ID	OJ000303_20.0419.C41
Gene No.	116652	Strand	-
Start	543	End	5568
Name	OJ000303_20.0419.C41.o1.gs	Method	GENSCAN
Start	543	End	5568
GI	none	Score	.79
Exons	543..689, 781..863, 1268..1340, 1442..1535, 1955..2058, 3060..3254, 3389..3468, 3575..3671, 3962..4080, 4188..4257, 5153..5280, 5331..5445, 5530..5568		

Seq. No.	55682	Seq. ID	OJ000303_20.0419.C41
Gene No.	116652	Strand	-
Start	543	End	5568
Name	OJ000303_20.0419.C41.o1.np	Method	AAT/NAP
Start	543	End	5472
GI	3953458	Score	1349
Exons	543..689, 781..863, 1268..1392, 1438..1535, 1955..2015, 2706..2766, 2887..2970, 3060..3254, 3389..3671, 3962..4080, 4188..4257, 5153..5248, 5326..5472		
GI Descrip.	(AC002328) F20N2.3 [Arabidopsis thaliana]		

Seq. No.	55682	Seq. ID	OJ000303_20.0419.C41
Gene No.	116652	Strand	-
Start	543	End	5568
Name	OJ000303_20.0419.C41.o2.gp	Method	AAT/GAP
Start	2714	End	3613
GI	LIB3477-010-F1-K1-H4	Score	814
Exons	2714..2766, 2887..2970, 3060..3254, 3389..3468, 3575..3613		
GI Descrip.	'3953458 1.0e-56 (AC002328) F20N2.3 [Arabidopsis thaliana]'		

Seq. No.	55682	Seq. ID	OJ000303_20.0419.C41
Gene No.	116653	Strand	-
Start	5995	End	6113
Name	OJ000303_20.0419.C41.o2.tc	Method	TBLASTX:Cress
Start	546	End	1553
GI	none	Score	141
Exons	546..689, 550..705, 781..876, 782..865, 1266..1343, 1267..1344,		

1439..1552, 1440..1553

Seq. No.	55682	Seq. ID	OJ000303_20.0419.C41
Gene No.	116653	Strand	-
Start	5995	End	6113
Name	OJ000303_20.0419.C41.o2.ts	Method	TBLASTX:Soybean
Start	546	End	822
GI	none	Score	136
Exons	546..689, 547..705, 781..822		

Seq. No.	55682	Seq. ID	OJ000303_20.0419.C41
Gene No.	116653	Strand	-
Start	5995	End	6113
Name	OJ000303_20.0419.C41.o3.tm	Method	TBLASTX:Maize
Start	549	End	876
GI	none	Score	106
Exons	549..587, 570..689, 571..705, 781..876, 782..865		

Seq. No.	55682	Seq. ID	OJ000303_20.0419.C41
Gene No.	116653	Strand	-
Start	5995	End	6113
Name	OJ000303_20.0419.C41.o1.tw	Method	TBLASTX:Wheat
Start	622	End	1538
GI	none	Score	87
Exons	622..705, 624..689, 779..862, 780..863, 781..864, 781..864, 782..865, 1238..1333, 1263..1343, 1266..1343, 1267..1344, 1437..1505, 1440..1493, 1488..1538		

Seq. No.	55682	Seq. ID	OJ000303_20.0419.C41
Gene No.	116653	Strand	-
Start	5995	End	6113
Name	OJ000303_20.0419.C41.o1.tm	Method	TBLASTX:Maize
Start	1290	End	3663
GI	none	Score	44
Exons	1290..1325, 1416..1457, 1457..1540, 1460..1552, 1464..1562, 1473..1553, 1955..2017, 1956..2009, 1957..2016, 2704..2766, 2705..2767, 2884..2973, 2899..2973, 3054..3254, 3055..3255, 3059..3262, 3061..3270, 3062..3286, 3375..3470, 3376..3471, 3391..3471, 3502..3663, 3579..3662		

Seq. No.	55682	Seq. ID	OJ000303_20.0419.C41
Gene No.	116653	Strand	-
Start	5995	End	6113
Name	OJ000303_20.0419.C41.o1.ts	Method	TBLASTX:Soybean
Start	1297	End	5556
GI	none	Score	63
Exons	1297..1344, 1299..1343, 1437..1553, 1449..1553, 1450..1554, 1955..2017, 1957..2016, 2704..2766, 2705..2767, 2887..2973, 2899..2973, 3054..3254, 3055..3255, 3061..3255, 3576..3671, 3577..3672, 3959..4081, 3960..4052, 4172..4258, 4189..4260, 5153..5245, 5160..5246, 5497..5556		

Seq. No.	55682	Seq. ID	OJ000303_20.0419.C41
Gene No.	116653	Strand	-
Start	5995	End	6113
Name	OJ000303_20.0419.C41.o1.tc	Method	TBLASTX:Cress
Start	2929	End	3258

GI	none	Score	82
Exons	2929..2973, 3054..3254, 3067..3255, 3068..3178, 3072..3245, 3091..3258		

Seq. No.	55682	Seq. ID	OJ000303_20.0419.C41
Gene No.	116653	Strand	-
Start	5995	End	6113
Name	OJ000303_20.0419.C41.o2.tm	Method	TBLASTX:Maize
Start	3951	End	5575
GI	none	Score	135
Exons	3951..4079, 3959..4081, 3960..4052, 3962..4081, 4172..4258, 4185..4259, 4189..4260, 4189..4260, 5151..5246, 5153..5245, 5193..5246, 5332..5376, 5485..5574, 5510..5575		

Seq. No.	55682	Seq. ID	OJ000303_20.0419.C41
Gene No.	116653	Strand	-
Start	5995	End	6113
Name	OJ000303_20.0419.C41.o3.gp	Method	AAT/GAP
Start	5995	End	6113
GI	5851018	Score	226
Exons	5995..6113		

Seq. No.	55683	Seq. ID	OJ000303_20.0419.C42
Gene No.	116654	Strand	-
Start	1	End	357
Name	OJ000303_20.0419.C42.o1.gp	Method	AAT/GAP
Start	1	End	357
GI	5851018	Score	666
Exons	1..357		

Seq. No.	55683	Seq. ID	OJ000303_20.0419.C42
Gene No.	116655	Strand	-
Start	735	End	5218
Name	OJ000303_20.0419.C42.o2.gp	Method	AAT/GAP
Start	425	End	3122
GI	958_1.R1084	Score	1921
Exons	425..890, 1034..1075, 1192..1284, 1936..2033, 2098..2204, 2287..2349, 2959..3122		
GI Descrip.	'6007803/gb AAF01048.1 AF189365_1 1.0e-122 (AF189365) D-ribulose-5-phosphate 3-epimerase [Oryza sativa]'		

Seq. No.	55683	Seq. ID	OJ000303_20.0419.C42
Gene No.	116655	Strand	-
Start	735	End	5218
Name	OJ000303_20.0419.C42.o1.tw	Method	TBLASTX:Wheat
Start	669	End	1992
GI	none	Score	53
Exons	669..737, 682..714, 686..715, 706..891, 733..834, 741..890, 815..901, 1031..1075, 1032..1076, 1033..1080, 1034..1090, 1174..1284, 1181..1285, 1190..1285, 1924..1992, 1928..1987, 1933..1992		

Seq. No.	55683	Seq. ID	OJ000303_20.0419.C42
Gene No.	116655	Strand	-
Start	735	End	5218
Name	OJ000303_20.0419.C42.o3.tm	Method	TBLASTX:Maize
Start	718	End	1112

GI none Score 241
Exons 718..891, 732..902, 741..890, 815..907, 1031..1084, 1032..1112

Seq. No. 55683 Seq. ID OJ000303_20.0419.C42
Gene No. 116655 Strand -
Start 735 End 5218
Name OJ000303_20.0419.C42.o1.gs Method GENSCAN
Start 735 End 4717
GI none Score .69
Exons 735..890, 1192..1284, 2444..2534, 2961..3203, 3921..3970,
4070..4156, 4330..4472, 4588..4717

Seq. No. 55683 Seq. ID OJ000303_20.0419.C42
Gene No. 116655 Strand -
Start 735 End 5218
Name OJ000303_20.0419.C42.o1.np Method AAT/NAP
Start 738 End 3088
GI 6007803 Score 963
Exons 738..890, 1034..1075, 1192..1284, 1936..2033, 2098..2204,
2287..2349, 2961..3088

GI Descrip. (AF189365) D-ribulose-5-phosphate 3-epimerase [Oryza sativa]

Seq. No. 55683 Seq. ID OJ000303_20.0419.C42
Gene No. 116655 Strand -
Start 735 End 5218
Name OJ000303_20.0419.C42.o2.tc Method TBLASTX:Cress
Start 747 End 3059
GI none Score 163
Exons 747..890, 757..891, 1028..1087, 1031..1090, 1180..1284,
1190..1285, 1190..1291, 1933..2034, 1934..2035, 2069..2251,
2102..2203, 2106..2237, 2289..2348, 2290..2349, 2292..2357,
2964..3059, 2966..3058

Seq. No. 55683 Seq. ID OJ000303_20.0419.C42
Gene No. 116655 Strand -
Start 735 End 5218
Name OJ000303_20.0419.C42.o2.ts Method TBLASTX:Soybean
Start 747 End 3059
GI none Score 170
Exons 747..890, 757..891, 766..891, 815..892, 1031..1075, 1032..1076,
1034..1090, 1174..1284, 1181..1285, 1194..1292, 1196..1291,
1927..2034, 1928..2035, 2090..2251, 2094..2237, 2286..2357,
2286..2348, 2290..2358, 2947..3009, 2948..3010, 2964..3059,
2966..3058

Seq. No. 55683 Seq. ID OJ000303_20.0419.C42
Gene No. 116655 Strand -
Start 735 End 5218
Name OJ000303_20.0419.C42.o2.tm Method TBLASTX:Maize
Start 1174 End 3068
GI none Score 147
Exons 1174..1284, 1181..1285, 1190..1291, 1924..2034, 1928..2035,
1933..2052, 1935..2042, 2090..2251, 2094..2237, 2286..2348,
2287..2358, 2964..3059, 2966..3058, 3042..3068

Seq. No. 55683 Seq. ID OJ000303_20.0419.C42
Gene No. 116655 Strand -

Start	735	End	5218
Name	OJ000303_20.0419.C42.o3.gp	Method	AAT/GAP
Start	3660	End	5218
GI	57_1.R1084	Score	1357
Exons	3660..3970, 4070..4156, 4330..4472, 4588..4717, 5159..5218		
GI Descrip.	'3138799/dbj BAA28276 1.0e-124 (AB014058) beta 6 subunit of 20S proteasome [Oryza sativa]'		

Seq. No.	55683	Seq. ID	OJ000303_20.0419.C42
Gene No.	116655	Strand	-
Start	735	End	5218
Name	OJ000303_20.0419.C42.o1.tm	Method	TBLASTX:Maize
Start	3737	End	5218
GI	none	Score	48
Exons	3737..3811, 3749..3811, 3847..3921, 3878..4003, 3897..3971, 4060..4155, 4066..4158, 4070..4159, 4328..4474, 4330..4473, 4335..4484, 4565..4717, 4595..4714, 4596..4721, 4617..4718, 5156..5218, 5157..5216, 5159..5218		

Seq. No.	55683	Seq. ID	OJ000303_20.0419.C42
Gene No.	116655	Strand	-
Start	735	End	5218
Name	OJ000303_20.0419.C42.o1.tc	Method	TBLASTX:Cress
Start	3896	End	5218
GI	none	Score	70
Exons	3896..4003, 3897..4004, 4070..4159, 4071..4172, 4336..4473, 4337..4474, 4565..4717, 4586..4714, 5156..5218		

Seq. No.	55683	Seq. ID	OJ000303_20.0419.C42
Gene No.	116655	Strand	-
Start	735	End	5218
Name	OJ000303_20.0419.C42.o1.ts	Method	TBLASTX:Soybean
Start	3896	End	5218
GI	none	Score	91
Exons	3896..4003, 3897..4019, 4070..4159, 4077..4160, 4330..4473, 4334..4474, 4565..4717, 4583..4714, 5156..5218		

Seq. No.	55683	Seq. ID	OJ000303_20.0419.C42
Gene No.	116655	Strand	-
Start	735	End	5218
Name	OJ000303_20.0419.C42.o2.np	Method	AAT/NAP
Start	3899	End	5218
GI	3138799	Score	724
Exons	3899..3970, 4070..4156, 4330..4472, 4588..4717, 5159..5218		
GI Descrip.	(AB014058) beta 6 subunit of 20S proteasome [Oryza sativa]		

Seq. No.	55684	Seq. ID	OJ000303_20.0419.C43
Gene No.	116656	Strand	-
Start	1	End	1548
Name	OJ000303_20.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	1480
GI	3138799	Score	204
Exons	1..18, 1235..1342, 1440..1480		
GI Descrip.	(AB014058) beta 6 subunit of 20S proteasome [Oryza sativa]		

Seq. No.	55684	Seq. ID	OJ000303_20.0419.C43
Gene No.	116656	Strand	-

Start	1	End	1548
Name	OJ000303_20.0419.C43.ol.tm	Method	TBLASTX:Maize
Start	1045	End	1481
GI	none	Score	58
Exons	1045..1113, 1065..1112, 1130..1219, 1142..1267, 1168..1224, 1214..1342, 1225..1344, 1225..1341, 1227..1343, 1439..1480, 1440..1481, 1440..1481		

Seq. No.	55684	Seq. ID	OJ000303_20.0419.C43
Gene No.	116656	Strand	-
Start	1	End	1548
Name	OJ000303_20.0419.C43.ol.tw	Method	TBLASTX:Wheat
Start	1114	End	1481
GI	none	Score	58
Exons	1114..1212, 1234..1341, 1235..1342, 1236..1343, 1439..1480, 1440..1481, 1440..1481		

Seq. No.	55684	Seq. ID	OJ000303_20.0419.C43
Gene No.	116656	Strand	-
Start	1	End	1548
Name	OJ000303_20.0419.C43.ol.gp	Method	AAT/GAP
Start	1195	End	1548
GI	57 1.R1084	Score	299
Exons	1195..1342, 1440..1548		
GI Descrip.	'3138799/dbj BAA28276 1.0e-124 (AB014058) beta 6 subunit of 20S proteasome [Oryza sativa]'		

Seq. No.	55684	Seq. ID	OJ000303_20.0419.C43
Gene No.	116656	Strand	-
Start	1	End	1548
Name	OJ000303_20.0419.C43.ol.gs	Method	GENSCAN
Start	1235	End	1480
GI	none	Score	.68
Exons	1235..1342, 1440..1480		

Seq. No.	55685	Seq. ID	OJ000303_20.0419.C44
Gene No.	116657	Strand	+
Start	129	End	1457
Name	OJ000303_20.0419.C44.ol.gs	Method	GENSCAN
Start	129	End	1457
GI	none	Score	.4
Exons	129..276, 341..536, 1127..1234, 1248..1457		

Seq. No.	55685	Seq. ID	OJ000303_20.0419.C44
Gene No.	116658	Strand	-
Start	514	End	2263
Name	OJ000303_20.0419.C44.ol.np	Method	AAT/NAP
Start	514	End	2263
GI	6815062	Score	1948
Exons	514..746, 801..821, 1121..1460, 1538..1636, 1718..2063, 2107..2263		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza sativa]		

Seq. No.	55685	Seq. ID	OJ000303_20.0419.C44
Gene No.	116658	Strand	-

Start	514	End	2263
Name	OJ000303_20.0419.C44.o1.tm	Method	TBLASTX:Maize
Start	1377	End	2256
GI	none	Score	67
Exons	1377..1475, 1718..2014, 2106..2132, 2139..2255, 2158..2256		

Seq. No.	55685	Seq. ID	OJ000303_20.0419.C44
Gene No.	116658	Strand	-
Start	514	End	2263
Name	OJ000303_20.0419.C44.o2.gs	Method	GENSCAN
Start	1517	End	2197
GI	none	Score	.52
Exons	1517..1636, 1718..2063, 2107..2197		

Seq. No.	55686	Seq. ID	OJ000403_28.0424.C1
Gene No.	116659	Strand	+
Start	931	End	1241
Name	OJ000403_28.0424.C1.o1.gs	Method	GENSCAN
Start	931	End	1241
GI	none	Score	.83
Exons	931..1063, 1129..1241		

Seq. No.	55686	Seq. ID	OJ000403_28.0424.C1
Gene No.	116660	Strand	-
Start	1958	End	5491
Name	OJ000403_28.0424.C1.o2.gs	Method	GENSCAN
Start	1958	End	5491
GI	none	Score	.53
Exons	1958..1990, 2947..3055, 4798..5268, 5283..5491		

Seq. No.	55686	Seq. ID	OJ000403_28.0424.C1
Gene No.	116661	Strand	-
Start	9790	End	11761
Name	OJ000403_28.0424.C1.o1.tm	Method	TBLASTX:Maize
Start	7488	End	11761
GI	none	Score	193
Exons	7488..7859, 11450..11761, 11451..11756		

Seq. No.	55686	Seq. ID	OJ000403_28.0424.C1
Gene No.	116661	Strand	-
Start	9790	End	11761
Name	OJ000403_28.0424.C1.o1.np	Method	AAT/NAP
Start	9790	End	10253
GI	7340909	Score	107
Exons	9790..10253		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	55687	Seq. ID	OJ000403_28.0424.C2
Gene No.	116662	Strand	+
Start	24	End	440
Name	OJ000403_28.0424.C2.o1.gs	Method	GENSCAN
Start	24	End	440
GI	none	Score	.6
Exons	24..41, 363..440		

Seq. No.	55687	Seq. ID	OJ000403_28.0424.C2
Gene No.	116663	Strand	-

Start	1	End	489
Name	OJ000403_28.0424.C2.o1.np	Method	AAT/NAP
Start	1	End	489
GI	5852181	Score	103
Exons	1..155, 346..489		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116664	Strand	+
Start	1538	End	2826
Name	OJ000403_28.0424.C3.o1.gs	Method	GENSCAN
Start	1538	End	2826
GI	none	Score	.41
Exons	1538..1847, 2164..2476, 2791..2826		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116665	Strand	+
Start	6753	End	13274
Name	OJ000403_28.0424.C3.o3.gs	Method	GENSCAN
Start	6753	End	8878
GI	none	Score	.62
Exons	6753..6868, 7018..7173, 7572..7908, 7917..8046, 8160..8878		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116665	Strand	+
Start	6753	End	13274
Name	OJ000403_28.0424.C3.o2.np	Method	AAT/NAP
Start	8126	End	13274
GI	2583130	Score	1279
Exons	8126..11364, 13246..13274		
GI Descrip.	(AC002387) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116665	Strand	+
Start	6753	End	13274
Name	OJ000403_28.0424.C3.o4.gs	Method	GENSCAN
Start	9215	End	10279
GI	none	Score	.48
Exons	9215..9384, 9500..9940, 10093..10279		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116666	Strand	+
Start	38728	End	46226
Name	OJ000403_28.0424.C3.o8.gs	Method	GENSCAN
Start	38728	End	46226
GI	none	Score	.46
Exons	38728..38808, 40986..41071, 41166..41297, 44016..44070, 44688..44810, 44971..45111, 46140..46226		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116667	Strand	+
Start	46140	End	46288
Name	OJ000403_28.0424.C3.o3.gp	Method	AAT/GAP
Start	46140	End	46288
GI	21474_1.R1084	Score	231
Exons	46140..46288		

GI Descrip. '3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116668	Strand	+
Start	47521	End	49795
Name	OJ000403_28.0424.C3.o4.gp	Method	AAT/GAP
Start	47521	End	49795
GI	342_1.R1084	Score	3956
Exons	47521..49795		

GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116668	Strand	+
Start	47521	End	49795
Name	OJ000403_28.0424.C3.o5.gp	Method	AAT/GAP
Start	47521	End	49795
GI	342_1.R1084	Score	3952
Exons	47521..49795		

GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116669	Strand	-
Start	2857	End	9549
Name	OJ000403_28.0424.C3.o1.np	Method	AAT/NAP
Start	2857	End	9549
GI	6623973	Score	1253
Exons	2857..3442, 4023..4919, 9439..9549		

GI Descrip. (AC007505) Highly similar to Tal-3 polyprotein [Arabidopsis thaliana]

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116669	Strand	-
Start	2857	End	9549
Name	OJ000403_28.0424.C3.o1.gp	Method	AAT/GAP
Start	4399	End	4641
GI	1621494	Score	422
Exons	4399..4641		

GI Descrip. 1621495/dbj|BAA12903| 4.0e-35 (D85877) reverse transcriptase [Oryza sativa]

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116670	Strand	-
Start	16528	End	19254
Name	OJ000403_28.0424.C3.o5.gs	Method	GENSCAN
Start	16528	End	19254
GI	none	Score	.58
Exons	16528..16674, 16862..17008, 17223..17523, 17584..17723, 18101..18310, 18395..18496, 18694..18928, 19184..19254		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116671	Strand	-
Start	28918	End	31144
Name	OJ000403_28.0424.C3.o2.gp	Method	AAT/GAP
Start	28769	End	29110

GI 5004932
Exons 28769..29110

Score 617

Seq. No. 55688 Seq. ID OJ000403_28.0424.C3
Gene No. 116671 Strand -
Start 28918 End 31144
Name OJ000403_28.0424.C3.o7.gs Method GENSCAN
Start 28918 End 31118
GI none Score .58
Exons 28918..29292, 29381..29798, 29925..30174, 30313..30373,
30550..30626, 30761..31118

Seq. No. 55688 Seq. ID OJ000403_28.0424.C3
Gene No. 116671 Strand -
Start 28918 End 31144
Name OJ000403_28.0424.C3.o3.np Method AAT/NAP
Start 30282 End 31144
GI 4586043 Score 234
Exons 30282..30373, 30550..30626, 30761..30940, 31001..31144
GI Descrip. (AC007020) hypothetical protein [Arabidopsis thaliana]

Seq. No. 55688 Seq. ID OJ000403_28.0424.C3
Gene No. 116672 Strand -
Start 46134 End 49795
Name OJ000403_28.0424.C3.o1.tm Method TBLASTX:Maize
Start 2865 End 3288
GI none Score 133
Exons 2865..3110, 2867..3262, 2867..2968, 2869..3270, 2869..3288

Seq. No. 55688 Seq. ID OJ000403_28.0424.C3
Gene No. 116672 Strand -
Start 46134 End 49795
Name OJ000403_28.0424.C3.o2.ts Method TBLASTX:Soybean
Start 2869 End 3267
GI none Score 74
Exons 2869..2982, 2989..3267, 2993..3082, 2995..3258, 3116..3265

Seq. No. 55688 Seq. ID OJ000403_28.0424.C3
Gene No. 116672 Strand -
Start 46134 End 49795
Name OJ000403_28.0424.C3.o9.tw Method TBLASTX:Wheat
Start 2893 End 3312
GI none Score 60
Exons 2893..3087, 2917..3084, 3112..3312, 3137..3265

Seq. No. 55688 Seq. ID OJ000403_28.0424.C3
Gene No. 116672 Strand -
Start 46134 End 49795
Name OJ000403_28.0424.C3.o5.tm Method TBLASTX:Maize
Start 3347 End 4362
GI none Score 85
Exons 3347..3445, 3352..3447, 4025..4135, 4038..4139, 4141..4233,
4142..4234, 4210..4362, 4277..4360

Seq. No. 55688 Seq. ID OJ000403_28.0424.C3
Gene No. 116672 Strand -
Start 46134 End 49795

Name	OJ000403_28.0424.C3.o3.tw	Method	TBLASTX:Wheat
Start	4025	End	4797
GI	none	Score	70
Exons	4025..4120, 4183..4452, 4262..4396, 4489..4797, 4492..4689, 4493..4795		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o3.tm	Method	TBLASTX:Maize
Start	4363	End	4803
GI	none	Score	73
Exons	4363..4800, 4505..4657, 4702..4803		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o1.ts	Method	TBLASTX:Soybean
Start	4387	End	4776
GI	none	Score	78
Exons	4387..4776, 4425..4682, 4433..4756		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o3.tc	Method	TBLASTX:Cress
Start	4594	End	4800
GI	none	Score	69
Exons	4594..4800, 4718..4795		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o10.tw	Method	TBLASTX:Wheat
Start	4798	End	5030
GI	none	Score	85
Exons	4798..4911, 4798..4911, 4800..4916, 4808..4912, 4891..5010, 4907..5029, 4910..5029, 4911..5030		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o6.tw	Method	TBLASTX:Wheat
Start	6065	End	6490
GI	none	Score	54
Exons	6065..6133, 6085..6132, 6137..6256, 6204..6245, 6248..6358, 6249..6341, 6338..6490, 6348..6470		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o11.tw	Method	TBLASTX:Wheat
Start	8231	End	8617
GI	none	Score	94
Exons	8231..8422, 8425..8568, 8426..8617		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
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Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o7.tm	Method	TBLASTX:Maize
Start	9669	End	10306
GI	none	Score	104
Exons	9669..9833, 9816..10049, 10166..10306		
Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o5.tw	Method	TBLASTX:Wheat
Start	9713	End	10072
GI	none	Score	259
Exons	9713..9916, 9714..9932, 9714..9935, 9920..10072, 9930..10049		
Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o8.tw	Method	TBLASTX:Wheat
Start	10270	End	10667
GI	none	Score	355
Exons	10270..10647, 10271..10654, 10274..10666, 10536..10667		
Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o6.tm	Method	TBLASTX:Maize
Start	10466	End	10810
GI	none	Score	229
Exons	10466..10810		
Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o4.np	Method	AAT/NAP
Start	46134	End	49095
GI	6742729	Score	2552
Exons	46134..46182, 47492..49095		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		
Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o9.gs	Method	GENSCAN
Start	46562	End	49719
GI	none	Score	.73
Exons	46562..46747, 46827..46925, 47020..47092, 47177..47287, 47384..49719		
Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o1.tw	Method	TBLASTX:Wheat
Start	47484	End	47968
GI	none	Score	185
Exons	47484..47642, 47485..47757, 47519..47968, 47521..47967		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o2.tc	Method	TBLASTX:Cress
Start	47484	End	47684
GI	none	Score	114
Exons	47484..47669, 47485..47670, 47519..47680, 47524..47676, 47525..47680, 47529..47684		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o4.tm	Method	TBLASTX:Maize
Start	47611	End	47925
GI	none	Score	68
Exons	47611..47841, 47611..47925, 47639..47914		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o4.tw	Method	TBLASTX:Wheat
Start	47969	End	48379
GI	none	Score	81
Exons	47969..48055, 47971..48054, 48088..48306, 48128..48310, 48316..48378, 48329..48379		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o4.ts	Method	TBLASTX:Soybean
Start	48412	End	48654
GI	none	Score	210
Exons	48412..48654		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o2.tm	Method	TBLASTX:Maize
Start	48484	End	48942
GI	none	Score	103
Exons	48484..48678, 48688..48942, 48688..48930		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o2.tw	Method	TBLASTX:Wheat
Start	48518	End	48987
GI	none	Score	145
Exons	48518..48727, 48523..48747, 48563..48724, 48727..48825, 48728..48820, 48829..48933, 48833..48922, 48934..48987, 48935..48979		

Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o1.tc	Method	TBLASTX:Cress
Start	48775	End	49123

GI	none	Score	88
Exons	48775..49116, 48794..48931, 48971..49123		
Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o3.ts	Method	TBLASTX:Soybean
Start	48856	End	49285
GI	none	Score	121
Exons	48856..49152, 48874..49098, 49202..49285, 49210..49284		
Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o7.tw	Method	TBLASTX:Wheat
Start	49206	End	49557
GI	none	Score	187
Exons	49206..49457, 49216..49467, 49217..49459, 49450..49557		
Seq. No.	55688	Seq. ID	OJ000403_28.0424.C3
Gene No.	116672	Strand	-
Start	46134	End	49795
Name	OJ000403_28.0424.C3.o5.np	Method	AAT/NAP
Start	49579	End	49795
GI	5852182	Score	281
Exons	49579..49795		
GI Descrip.	(AL117265) zhb0012.1 [Oryza sativa]		
Seq. No.	55689	Seq. ID	OJ000403_28.0424.C5
Gene No.	116673	Strand	-
Start	10691	End	12900
Name	OJ000403_28.0424.C5.o1.np	Method	AAT/NAP
Start	10657	End	12900
GI	7446437	Score	1141
Exons	10657..11148, 11249..12199, 12850..12900		
GI Descrip.	probable serine/threonine-specific protein kinase (EC 2.7.1.-) F28A21.110 - Arabidopsis thaliana gi 4539389 emb CAB37455.1 (AL035526) putative protein kinase [Arabidopsis thaliana] gi 7268664 emb CAB78872.1 (AL161549) putative protein kinase [Arabidopsis thaliana]		
Seq. No.	55689	Seq. ID	OJ000403_28.0424.C5
Gene No.	116673	Strand	-
Start	10691	End	12900
Name	OJ000403_28.0424.C5.o3.gs	Method	GENSCAN
Start	10691	End	12223
GI	none	Score	.62
Exons	10691..12223		
Seq. No.	55689	Seq. ID	OJ000403_28.0424.C5
Gene No.	116673	Strand	-
Start	10691	End	12900
Name	OJ000403_28.0424.C5.o2.gp	Method	AAT/GAP
Start	10740	End	11106
GI	57653_1.R1084	Score	699
Exons	10740..11106		
GI Descrip.	'4539389/emb CAB37455.1 2.0e-28 (AL035526) putative protein		

kinase [Arabidopsis thaliana]'

Seq. No.	55689	Seq. ID	OJ000403_28.0424.C5
Gene No.	116673	Strand	-
Start	10691	End	12900
Name	OJ000403_28.0424.C5.o1.tc	Method	TBLASTX:Cress
Start	10760	End	12185
GI	none	Score	161
Exons	10760..10900, 11036..11113, 11375..11875, 11550..11849, 11897..12178, 11919..12185		

Seq. No.	55689	Seq. ID	OJ000403_28.0424.C5
Gene No.	116673	Strand	-
Start	10691	End	12900
Name	OJ000403_28.0424.C5.o2.ts	Method	TBLASTX:Soybean
Start	10766	End	11113
GI	none	Score	198
Exons	10766..11113, 10785..11108		

Seq. No.	55689	Seq. ID	OJ000403_28.0424.C5
Gene No.	116673	Strand	-
Start	10691	End	12900
Name	OJ000403_28.0424.C5.o1.tm	Method	TBLASTX:Maize
Start	10775	End	12203
GI	none	Score	92
Exons	10775..11053, 10785..11015, 10841..11053, 11034..11114, 11049..11108, 11378..11875, 11519..11731, 11547..11849, 11897..12202, 11919..12203		

Seq. No.	55689	Seq. ID	OJ000403_28.0424.C5
Gene No.	116673	Strand	-
Start	10691	End	12900
Name	OJ000403_28.0424.C5.o1.ts	Method	TBLASTX:Soybean
Start	11351	End	12196
GI	none	Score	210
Exons	11351..11875, 11541..11849, 11897..12196, 11919..12179		

Seq. No.	55689	Seq. ID	OJ000403_28.0424.C5
Gene No.	116673	Strand	-
Start	10691	End	12900
Name	OJ000403_28.0424.C5.o1.tw	Method	TBLASTX:Wheat
Start	11735	End	12122
GI	none	Score	85
Exons	11735..11875, 11915..12055, 11919..12056, 12056..12121, 12093..12122		

Seq. No.	55689	Seq. ID	OJ000403_28.0424.C5
Gene No.	116673	Strand	-
Start	10691	End	12900
Name	OJ000403_28.0424.C5.o3.gp	Method	AAT/GAP
Start	11777	End	12290
GI	uC-osflcyp026e12b1	Score	963
Exons	11777..12290		
GI Descrip.	'3337349 1.0e-32 (AC004481) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	55690	Seq. ID	OJ000323_21.0419.C1
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Gene No.	116674	Strand	+
Start	1	End	770
Name	OJ000323_21.0419.C1.ol.np	Method	AAT/NAP
Start	1	End	770
GI	5669871	Score	391
Exons	1..47, 130..196, 270..365, 441..543, 740..770		
GI Descrip.	(AF135014) dihydrolipoamide S-acetyltransferase [Zea mays]		

Seq. No.	55690	Seq. ID	OJ000323_21.0419.C1
Gene No.	116674	Strand	+
Start	1	End	770
Name	OJ000323_21.0419.C1.ol.tc	Method	TBLASTX:Cress
Start	10	End	548
GI	none	Score	57
Exons	10..48, 12..47, 128..196, 137..184, 139..210, 254..364, 255..365, 268..369, 435..548, 438..518, 440..538		

Seq. No.	55690	Seq. ID	OJ000323_21.0419.C1
Gene No.	116674	Strand	+
Start	1	End	770
Name	OJ000323_21.0419.C1.ol.tw	Method	TBLASTX:Wheat
Start	10	End	517
GI	none	Score	68
Exons	10..48, 12..50, 107..196, 107..196, 118..198, 130..210, 245..298, 251..364, 255..365, 268..366, 435..515, 438..515, 439..516, 440..517, 440..517		

Seq. No.	55690	Seq. ID	OJ000323_21.0419.C1
Gene No.	116674	Strand	+
Start	1	End	770
Name	OJ000323_21.0419.C1.ol.ts	Method	TBLASTX:Soybean
Start	10	End	548
GI	none	Score	62
Exons	10..48, 12..50, 101..196, 128..196, 130..210, 254..364, 255..365, 268..375, 435..548, 440..538		

Seq. No.	55690	Seq. ID	OJ000323_21.0419.C1
Gene No.	116674	Strand	+
Start	1	End	770
Name	OJ000323_21.0419.C1.ol.tm	Method	TBLASTX:Maize
Start	10	End	548
GI	none	Score	71
Exons	10..48, 12..50, 97..210, 107..196, 118..198, 248..301, 251..364, 255..365, 268..366, 271..366, 433..543, 435..548, 440..538		

Seq. No.	55690	Seq. ID	OJ000323_21.0419.C1
Gene No.	116674	Strand	+
Start	1	End	770
Name	OJ000323_21.0419.C1.ol.gs	Method	GENSCAN
Start	28	End	543
GI	none	Score	.9
Exons	28..47, 130..196, 270..365, 441..543		

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
Gene No.	116675	Strand	+
Start	1	End	65
Name	OJ000323_21.0419.C2.ol.np	Method	AAT/NAP

Start	1	End	65
GI	5669871	Score	84
Exons	1..65		
GI Descrip.	(AF135014) dihydrolipoamide S-acetyltransferase [Zea mays]		

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
Gene No.	116676	Strand	+
Start	2125	End	5763
Name	OJ000323_21.0419.C2.o1.gp	Method	AAT/GAP
Start	2125	End	5763
GI	5371.R1084	Score	2689
Exons	2125..2820, 5077..5763		
GI Descrip.	'433214/dbj BAA02971 0.0e+00 (D13817) lactate dehydrogenase [Oryza sativa]'		

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
Gene No.	116676	Strand	+
Start	2125	End	5763
Name	OJ000323_21.0419.C2.o1.gs	Method	GENSCAN
Start	2208	End	2924
GI	none	Score	.52
Exons	2208..2924		

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
Gene No.	116676	Strand	+
Start	2125	End	5763
Name	OJ000323_21.0419.C2.o2.np	Method	AAT/NAP
Start	2208	End	5520
GI	7431149	Score	1739
Exons	2208..2820, 5072..5520		
GI Descrip.	L-lactate dehydrogenase (EC 1.1.1.27) - rice gi 987693 dbj BAA04088.1 (D16685) lactate dehydrogenase [Oryza sativa]		

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
Gene No.	116676	Strand	+
Start	2125	End	5763
Name	OJ000323_21.0419.C2.o2.gs	Method	GENSCAN
Start	5071	End	5523
GI	none	Score	.61
Exons	5071..5523		

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
Gene No.	116677	Strand	+
Start	6484	End	10121
Name	OJ000323_21.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	2196	End	2773
GI	none	Score	135
Exons	2196..2273, 2208..2321, 2298..2762, 2312..2773		

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
Gene No.	116677	Strand	+
Start	6484	End	10121
Name	OJ000323_21.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	2295	End	5499
GI	none	Score	603
Exons	2295..2762, 2318..2767, 2800..2820, 5073..5363, 5074..5367,		

5380..5499

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
Gene No.	116677	Strand	+
Start	6484	End	10121
Name	OJ000323_21.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	2295	End	5499
GI	none	Score	576
Exons	2295..2762, 2318..2617, 2666..2767, 2800..2820, 5073..5156, 5074..5367, 5217..5366, 5374..5499		

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
Gene No.	116677	Strand	+
Start	6484	End	10121
Name	OJ000323_21.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	5071	End	5394
GI	none	Score	480
Exons	5071..5253, 5073..5381, 5074..5394		

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
Gene No.	116677	Strand	+
Start	6484	End	10121
Name	OJ000323_21.0419.C2.o3.gs	Method	GENSCAN
Start	6484	End	9078
GI	none	Score	.64
Exons	6484..6536, 6640..7504, 8044..8319, 8586..8654, 8944..9078		

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
Gene No.	116677	Strand	+
Start	6484	End	10121
Name	OJ000323_21.0419.C2.o3.np	Method	AAT/NAP
Start	6722	End	10121
GI	6907085	Score	791
Exons	6722..6778, 6863..7504, 8044..8319, 8944..9070, 9980..10121		
GI Descrip.	(AP001129) ESTs AU082316(E3368), D41461(S3973) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
Gene No.	116677	Strand	+
Start	6484	End	10121
Name	OJ000323_21.0419.C2.o4.tm	Method	TBLASTX:Maize
Start	6881	End	7275
GI	none	Score	40
Exons	6881..6907, 7031..7273, 7063..7275, 7087..7275		

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
Gene No.	116677	Strand	+
Start	6484	End	10121
Name	OJ000323_21.0419.C2.o3.tm	Method	TBLASTX:Maize
Start	7276	End	9066
GI	none	Score	90
Exons	7276..7341, 7277..7342, 7367..7504, 7438..7500, 8041..8319, 8041..8319, 8042..8320, 8249..8329, 8256..8330, 8923..9066, 8928..9065		

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
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Gene No.	116677	Strand	+
Start	6484	End	10121
Name	OJ000323_21.0419.C2.o2.tc	Method	TBLASTX:Cress
Start	8051	End	8319
GI	none	Score	65
Exons	8051..8308, 8065..8319, 8065..8319		

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
Gene No.	116677	Strand	+
Start	6484	End	10121
Name	OJ000323_21.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	8064	End	9048
GI	none	Score	61
Exons	8064..8120, 8065..8319, 8068..8319, 8923..9048		

Seq. No.	55691	Seq. ID	OJ000323_21.0419.C2
Gene No.	116677	Strand	+
Start	6484	End	10121
Name	OJ000323_21.0419.C2.o2.gp	Method	AAT/GAP
Start	8155	End	9283
GI	none	Score	949
Exons	8155..8319, 8944..9283		

Seq. No.	55692	Seq. ID	OJ000323_21.0419.C3
Gene No.	116678	Strand	+
Start	67	End	312
Name	OJ000323_21.0419.C3.o1.gs	Method	GENSCAN
Start	67	End	312
GI	none	Score	.89
Exons	67..153, 220..312		

Seq. No.	55692	Seq. ID	OJ000323_21.0419.C3
Gene No.	116679	Strand	+
Start	2726	End	4927
Name	OJ000323_21.0419.C3.o2.gs	Method	GENSCAN
Start	2726	End	3229
GI	none	Score	.93
Exons	2726..3229		

Seq. No.	55692	Seq. ID	OJ000323_21.0419.C3
Gene No.	116679	Strand	+
Start	2726	End	4927
Name	OJ000323_21.0419.C3.o2.np	Method	AAT/NAP
Start	2984	End	4927
GI	131773	Score	35
Exons	2984..3069, 4228..4253, 4333..4476, 4897..4927		
GI Descrip.	40S RIBOSOMAL PROTEIN S14 (CLONE MCH2) gi 82724 pir B30097 ribosomal protein S14 (clone MCH2) - maize		

Seq. No.	55692	Seq. ID	OJ000323_21.0419.C3
Gene No.	116680	Strand	-
Start	1	End	404
Name	OJ000323_21.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	404
GI	5803254	Score	121
Exons	1..147, 252..404		
GI Descrip.	(AP000399) ESTs C97429(C60159),D22427(C11106),		

AU078031(E31854),D15683(C1084) correspond to a region of the predicted gene; hypothetical protein [Oryza sativa]

Seq. No.	55693	Seq. ID	OJ000323_21.0419.C4
Gene No.	116681	Strand	+
Start	1	End	170
Name	OJ000323_21.0419.C4.o1.gp	Method	AAT/GAP
Start	1	End	170
GI	2114 1.R1084	Score	340
Exons	1..170		
GI Descrip.	'4836892/gb AAD30595.1 AC007369_5 1.0e-117 (AC007369) Putative RNA helicase [Arabidopsis thaliana]'		

Seq. No.	55693	Seq. ID	OJ000323_21.0419.C4
Gene No.	116682	Strand	-
Start	1	End	1433
Name	OJ000323_21.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	1433
GI	4836892	Score	1937
Exons	1..1433		
GI Descrip.	(AC007369) Putative RNA helicase [Arabidopsis thaliana]		

Seq. No.	55693	Seq. ID	OJ000323_21.0419.C4
Gene No.	116682	Strand	-
Start	1	End	1433
Name	OJ000323_21.0419.C4.o2.tc	Method	TBLASTX:Cress
Start	1	End	372
GI	none	Score	322
Exons	1..372, 2..370, 64..372		

Seq. No.	55693	Seq. ID	OJ000323_21.0419.C4
Gene No.	116682	Strand	-
Start	1	End	1433
Name	OJ000323_21.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	1	End	250
GI	none	Score	151
Exons	1..102, 2..106, 3..104, 104..250, 104..247, 106..249		

Seq. No.	55693	Seq. ID	OJ000323_21.0419.C4
Gene No.	116682	Strand	-
Start	1	End	1433
Name	OJ000323_21.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	1	End	450
GI	none	Score	431
Exons	1..450, 2..448		

Seq. No.	55693	Seq. ID	OJ000323_21.0419.C4
Gene No.	116682	Strand	-
Start	1	End	1433
Name	OJ000323_21.0419.C4.o1.gs	Method	GENSCAN
Start	15	End	1398
GI	none	Score	.51
Exons	15..1398		

Seq. No.	55693	Seq. ID	OJ000323_21.0419.C4
Gene No.	116682	Strand	-
Start	1	End	1433

Name	OJ000323_21.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	70	End	1290
GI	none	Score	50
Exons	70..252, 250..999, 251..316, 346..627, 356..853, 1009..1290, 1085..1288		

Seq. No.	55693	Seq. ID	OJ000323_21.0419.C4
Gene No.	116682	Strand	-
Start	1	End	1433
Name	OJ000323_21.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	250	End	582
GI	none	Score	145
Exons	250..579, 251..571, 349..582		

Seq. No.	55693	Seq. ID	OJ000323_21.0419.C4
Gene No.	116682	Strand	-
Start	1	End	1433
Name	OJ000323_21.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	451	End	1079
GI	none	Score	133
Exons	451..573, 452..577, 585..812, 592..1068, 600..812, 602..1066, 915..1079		

Seq. No.	55693	Seq. ID	OJ000323_21.0419.C4
Gene No.	116682	Strand	-
Start	1	End	1433
Name	OJ000323_21.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	457	End	1170
GI	none	Score	136
Exons	457..999, 464..901, 941..997, 1009..1167, 1030..1170		

Seq. No.	55693	Seq. ID	OJ000323_21.0419.C4
Gene No.	116682	Strand	-
Start	1	End	1433
Name	OJ000323_21.0419.C4.o2.gp	Method	AAT/GAP
Start	669	End	1369
GI	29773.1.R1084	Score	1311
Exons	669..1369		
GI Descrip.	'4836892/gb AAD30595.1 AC007369_5 4.0e-82 (AC007369) Putative RNA helicase [Arabidopsis thaliana]'		

Seq. No.	55693	Seq. ID	OJ000323_21.0419.C4
Gene No.	116682	Strand	-
Start	1	End	1433
Name	OJ000323_21.0419.C4.o3.ts	Method	TBLASTX:Soybean
Start	1084	End	1429
GI	none	Score	81
Exons	1084..1311, 1084..1428, 1085..1429		

Seq. No.	55693	Seq. ID	OJ000323_21.0419.C4
Gene No.	116682	Strand	-
Start	1	End	1433
Name	OJ000323_21.0419.C4.o3.tc	Method	TBLASTX:Cress
Start	1171	End	1429
GI	none	Score	99
Exons	1171..1320, 1171..1428, 1173..1391, 1256..1429		

Seq. No.	55693	Seq. ID	OJ000323_21.0419.C4
Gene No.	116682	Strand	-
Start	1	End	1433
Name	OJ000323_21.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	1291	End	1433
GI	none	Score	202
Exons	1291..1431, 1292..1432, 1299..1433		

Seq. No.	55694	Seq. ID	OJ000323_21.0419.C5
Gene No.	116683	Strand	-
Start	1	End	635
Name	OJ000323_21.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	318
GI	4836892	Score	456
Exons	1..318		
GI Descrip.	(AC007369) Putative RNA helicase [Arabidopsis thaliana]		

Seq. No.	55694	Seq. ID	OJ000323_21.0419.C5
Gene No.	116683	Strand	-
Start	1	End	635
Name	OJ000323_21.0419.C5.o1.gs	Method	GENSCAN
Start	21	End	635
GI	none	Score	.51
Exons	21..365, 542..635		

Seq. No.	55695	Seq. ID	OJ000323_21.0419.C6
Gene No.	116684	Strand	+
Start	3672	End	5974
Name	OJ000323_21.0419.C6.o3.np	Method	AAT/NAP
Start	3663	End	5971
GI	3860253	Score	304
Exons	3663..3724, 3796..3879, 4328..4583, 5393..5424, 5745..5971		
GI Descrip.	(AC005824) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55695	Seq. ID	OJ000323_21.0419.C6
Gene No.	116684	Strand	+
Start	3672	End	5974
Name	OJ000323_21.0419.C6.o2.gs	Method	GENSCAN
Start	3672	End	5974
GI	none	Score	.84
Exons	3672..3724, 3796..3879, 3952..4032, 5355..5424, 5745..5807, 5897..5974		

Seq. No.	55695	Seq. ID	OJ000323_21.0419.C6
Gene No.	116685	Strand	-
Start	1	End	4467
Name	OJ000323_21.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	2275
GI	6466937	Score	995
Exons	1..2275		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	55695	Seq. ID	OJ000323_21.0419.C6
Gene No.	116685	Strand	-
Start	1	End	4467
Name	OJ000323_21.0419.C6.o2.np	Method	AAT/NAP

Start	1	End	3996
GI	6466937	Score	989
Exons	1..2265, 3878..3996		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	55695	Seq. ID	OJ000323_21.0419.C6
Gene No.	116685	Strand	-
Start	1	End	4467
Name	OJ000323_21.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	178	End	510
GI	none	Score	81
Exons	178..510, 290..439		

Seq. No.	55695	Seq. ID	OJ000323_21.0419.C6
Gene No.	116685	Strand	-
Start	1	End	4467
Name	OJ000323_21.0419.C6.o2.tw	Method	TBLASTX:Wheat
Start	178	End	438
GI	none	Score	222
Exons	178..438		

Seq. No.	55695	Seq. ID	OJ000323_21.0419.C6
Gene No.	116685	Strand	-
Start	1	End	4467
Name	OJ000323_21.0419.C6.o3.tm	Method	TBLASTX:Maize
Start	178	End	414
GI	none	Score	79
Exons	178..414, 263..406		

Seq. No.	55695	Seq. ID	OJ000323_21.0419.C6
Gene No.	116685	Strand	-
Start	1	End	4467
Name	OJ000323_21.0419.C6.o1.gs	Method	GENSCAN
Start	385	End	2465
GI	none	Score	.53
Exons	385..863, 924..1661, 1697..2465		

Seq. No.	55695	Seq. ID	OJ000323_21.0419.C6
Gene No.	116685	Strand	-
Start	1	End	4467
Name	OJ000323_21.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	433	End	918
GI	none	Score	286
Exons	433..918, 437..913		

Seq. No.	55695	Seq. ID	OJ000323_21.0419.C6
Gene No.	116685	Strand	-
Start	1	End	4467
Name	OJ000323_21.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	487	End	951
GI	none	Score	182
Exons	487..951, 491..889		

Seq. No.	55695	Seq. ID	OJ000323_21.0419.C6
Gene No.	116685	Strand	-
Start	1	End	4467

Name OJ000323_21.0419.C6.o2.ts
 Start 619
 GI none
 Exons 619..933

Method TBLASTX:Soybean
 End 933
 Score 205

Seq. No. 55695
 Gene No. 116685
 Start 1
 Name OJ000323_21.0419.C6.o4.tm
 Start 2082
 GI none
 Exons 2082..2318, 2083..2310

Seq. ID OJ000323_21.0419.C6
 Strand -
 End 4467
 Method TBLASTX:Maize
 End 2318
 Score 71

Seq. No. 55695
 Gene No. 116685
 Start 1
 Name OJ000323_21.0419.C6.o2.tm
 Start 3680
 GI none
 Exons 3680..3727, 3681..3725, 3781..3879, 3794..3880, 3951..4040, 3952..4068, 3953..4033, 4290..4367, 4316..4369, 4325..4375, 4327..4374, 4359..4466, 4359..4466, 4369..4467, 4369..4467

Seq. ID OJ000323_21.0419.C6
 Strand -
 End 4467
 Method TBLASTX:Maize
 End 4467
 Score 72

Seq. No. 55696
 Gene No. 116686
 Start 1419
 Name OJ000323_21.0419.C7.o1.gs
 Start 1419
 GI none
 Exons 1419..2434, 2604..2818

Seq. ID OJ000323_21.0419.C7
 Strand +
 End 3185
 Method GENSCAN
 End 2818
 Score .54

Seq. No. 55696
 Gene No. 116686
 Start 1419
 Name OJ000323_21.0419.C7.o1.np
 Start 1419
 GI 6907098
 Exons 1419..2381, 2426..2527, 2566..2791, 2885..3185

Seq. ID OJ000323_21.0419.C7
 Strand +
 End 3185
 Method AAT/NAP
 End 3185
 Score 618

GI Descrip. (AP001129) EST AU031036(E60617) corresponds to a region of the predicted gene.; Similar to Human mRNA for KIAA0310 gene. (AB002308) [Oryza sativa]

Seq. No. 55696
 Gene No. 116686
 Start 1419
 Name OJ000323_21.0419.C7.o1.tm
 Start 2659
 GI none
 Exons 2659..2865, 2683..2796, 2689..2787, 2690..2785, 2695..2835, 2698..2796, 2701..2862, 2701..2850, 2702..2851, 2731..2799, 2751..2864, 2751..2855, 2778..2864, 2779..2865, 2818..2865, 2830..3006, 2855..3067, 2855..2953, 2867..3070, 2869..2904, 2869..3075, 2870..3004, 2871..3074, 2871..3038, 2871..2903, 2896..2967, 2897..3004, 2898..3140, 2898..3125, 2933..3082, 2934..3086, 2935..3012, 3004..3174, 3010..3102, 3062..3094, 3084..3131, 3088..3126, 3120..3179, 3126..3185, 3127..3180

Seq. ID OJ000323_21.0419.C7
 Strand +
 End 3185
 Method TBLASTX:Maize
 End 3185
 Score 121

Seq. No.	55697	Seq. ID	OJ000323_21.0419.C8
Gene No.	116687	Strand	+
Start	1	End	1459
Name	OJ000323_21.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	1459
GI	6907098	Score	764
Exons	1..204, 306..629, 897..1025, 1440..1459		
GI Descrip.	(AP001129) EST AU031036(E60617) corresponds to a region of the predicted gene.; Similar to Human mRNA for KIAA0310 gene. (AB002308) [Oryza sativa]		

Seq. No.	55697	Seq. ID	OJ000323_21.0419.C8
Gene No.	116687	Strand	+
Start	1	End	1459
Name	OJ000323_21.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	2	End	411
GI	none	Score	112
Exons	2..118, 6..203, 7..204, 12..206, 303..410, 303..410, 304..411		

Seq. No.	55697	Seq. ID	OJ000323_21.0419.C8
Gene No.	116687	Strand	+
Start	1	End	1459
Name	OJ000323_21.0419.C8.o1.gs	Method	GENSCAN
Start	76	End	1230
GI	none	Score	.97
Exons	76..204, 306..629, 897..1025, 1108..1230		

Seq. No.	55697	Seq. ID	OJ000323_21.0419.C8
Gene No.	116687	Strand	+
Start	1	End	1459
Name	OJ000323_21.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	273	End	587
GI	none	Score	78
Exons	273..395, 399..587, 400..513, 431..571, 441..587		

Seq. No.	55697	Seq. ID	OJ000323_21.0419.C8
Gene No.	116687	Strand	+
Start	1	End	1459
Name	OJ000323_21.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	1107	End	1457
GI	none	Score	171
Exons	1107..1226, 1108..1230, 1120..1230, 1331..1447, 1347..1457		

Seq. No.	55698	Seq. ID	OJ000323_21.0419.C10
Gene No.	116688	Strand	-
Start	1394	End	1527
Name	OJ000323_21.0419.C10.o2.gs	Method	GENSCAN
Start	1394	End	1527
GI	none	Score	.76
Exons	1394..1455, 1500..1527		

Seq. No.	55699	Seq. ID	OJ000323_21.0419.C11
Gene No.	116689	Strand	+
Start	414	End	993
Name	OJ000323_21.0419.C11.o1.gs	Method	GENSCAN
Start	414	End	980
GI	none	Score	.93

Exons 414..980

Seq. No.	55699	Seq. ID	OJ000323_21.0419.C11
Gene No.	116689	Strand	+
Start	414	End	993
Name	OJ000323_21.0419.C11.o1.np	Method	AAT/NAP
Start	472	End	993
GI	6630539	Score	191
Exons	472..993		
GI Descrip.	(AC011708) putative RING zinc finger protein [Arabidopsis thaliana]		

Seq. No.	55699	Seq. ID	OJ000323_21.0419.C11
Gene No.	116690	Strand	+
Start	2913	End	4158
Name	OJ000323_21.0419.C11.o2.np	Method	AAT/NAP
Start	2913	End	4158
GI	6721543	Score	123
Exons	2913..3043, 4099..4158		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	55699	Seq. ID	OJ000323_21.0419.C11
Gene No.	116691	Strand	-
Start	1008	End	1528
Name	OJ000323_21.0419.C11.o1.gp	Method	AAT/GAP
Start	1008	End	1528
GI	LIB3475-012-P1-K1-F10	Score	1012
Exons	1008..1528		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 2.0e-10 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	55699	Seq. ID	OJ000323_21.0419.C11
Gene No.	116692	Strand	-
Start	2843	End	6239
Name	OJ000323_21.0419.C11.o2.gs	Method	GENSCAN
Start	2843	End	5783
GI	none	Score	.68
Exons	2843..3005, 3564..3747, 3898..4100, 4105..4152, 4216..4347, 4438..4469, 4661..4843, 4936..5194, 5271..5569, 5659..5783		

Seq. No.	55699	Seq. ID	OJ000323_21.0419.C11
Gene No.	116692	Strand	-
Start	2843	End	6239
Name	OJ000323_21.0419.C11.o2.gp	Method	AAT/GAP
Start	3309	End	3762
GI	LIB3431-045-P1-N1-A10	Score	836
Exons	3309..3762		
GI Descrip.	'5441876/dbj AP000367.1 AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	55699	Seq. ID	OJ000323_21.0419.C11
Gene No.	116692	Strand	-
Start	2843	End	6239
Name	OJ000323_21.0419.C11.o3.np	Method	AAT/NAP
Start	3563	End	6239
GI	7228442	Score	297
Exons	3563..3748, 6174..6239		

GI Descrip. (AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]

Seq. No.	55699	Seq. ID	OJ000323_21.0419.C11
Gene No.	116692	Strand	-
Start	2843	End	6239
Name	OJ000323_21.0419.C11.o4.np	Method	AAT/NAP
Start	3866	End	5569
GI	5441880	Score	1676
Exons	3866..4100, 4216..4347, 4594..4691, 4936..5194, 5271..5569		

GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No.	55699	Seq. ID	OJ000323_21.0419.C11
Gene No.	116692	Strand	-
Start	2843	End	6239
Name	OJ000323_21.0419.C11.o3.gp	Method	AAT/GAP
Start	4944	End	5443
GI	LIB3475-007-P1-K1-G8	Score	805
Exons	4944..5194, 5271..5443		

GI Descrip. '5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa].'

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116693	Strand	+
Start	1	End	4168
Name	OJ000323_21.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	4165
GI	4680179	Score	7162
Exons	1..4165		

GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116693	Strand	+
Start	1	End	4168
Name	OJ000323_21.0419.C12.o1.gs	Method	GENSCAN
Start	59	End	4168
GI	none	Score	.49
Exons	59..3390, 3496..4168		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116694	Strand	+
Start	4777	End	9697
Name	OJ000323_21.0419.C12.o2.np	Method	AAT/NAP
Start	4777	End	9697
GI	7340881	Score	370
Exons	4777..4862, 5009..5132, 5225..5378, 5448..5663, 7087..7191, 7297..7327, 9354..9448, 9476..9500, 9646..9697		

GI Descrip. (AP001551) hypothetical protein [Oryza sativa]

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116694	Strand	+
Start	4777	End	9697
Name	OJ000323_21.0419.C12.o3.gs	Method	GENSCAN

Start	6466	End	8709
GI	none	Score	.75
Exons	6466..6570, 7822..8709		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116694	Strand	+
Start	4777	End	9697
Name	OJ000323_21.0419.C12.o1.gp	Method	AAT/GAP
Start	7050	End	7260
GI	1631463	Score	344
Exons	7050..7260		
GI Descrip.	4680178/gb AF111709.1 AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116694	Strand	+
Start	4777	End	9697
Name	OJ000323_21.0419.C12.o3.np	Method	AAT/NAP
Start	7888	End	8706
GI	5042448	Score	1130
Exons	7888..8706		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116694	Strand	+
Start	4777	End	9697
Name	OJ000323_21.0419.C12.o4.gs	Method	GENSCAN
Start	8961	End	9634
GI	none	Score	.96
Exons	8961..9634		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116694	Strand	+
Start	4777	End	9697
Name	OJ000323_21.0419.C12.o4.np	Method	AAT/NAP
Start	8961	End	9697
GI	4680179	Score	1290
Exons	8961..9697		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o7.tw	Method	TBLASTX:Wheat
Start	1	End	9587
GI	none	Score	193
Exons	1..228, 2..229, 9228..9587, 9254..9328, 9353..9586		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o6.tm	Method	TBLASTX:Maize
Start	110	End	9680
GI	none	Score	210
Exons	110..406, 110..394, 127..297, 9468..9680, 9485..9655		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o8.tw	Method	TBLASTX:Wheat
Start	749	End	1171
GI	none	Score	153
Exons	749..943, 799..897, 983..1171, 1009..1164		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o4.tw	Method	TBLASTX:Wheat
Start	1328	End	1810
GI	none	Score	550
Exons	1328..1810, 1432..1767, 1457..1801		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o5.tm	Method	TBLASTX:Maize
Start	1340	End	1629
GI	none	Score	322
Exons	1340..1627, 1438..1629		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o4.ts	Method	TBLASTX:Soybean
Start	1364	End	1678
GI	none	Score	183
Exons	1364..1678, 1480..1677		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o3.tm	Method	TBLASTX:Maize
Start	1697	End	2197
GI	none	Score	161
Exons	1697..1876, 1862..2197, 1949..2188		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	1751	End	2146
GI	none	Score	57
Exons	1751..1783, 1751..1795, 1787..2146, 1787..1867, 1882..2145		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o5.tw	Method	TBLASTX:Wheat
Start	1859	End	2161
GI	none	Score	402
Exons	1859..2161, 1860..1961, 1879..2160		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o2.tw	Method	TBLASTX:Wheat
Start	2162	End	2671
GI	none	Score	628
Exons	2162..2671, 2194..2505, 2240..2587		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o3.ts	Method	TBLASTX:Soybean
Start	2168	End	2413
GI	none	Score	204
Exons	2168..2413		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	2234	End	2599
GI	none	Score	488
Exons	2234..2587, 2236..2502, 2288..2599		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o3.tw	Method	TBLASTX:Wheat
Start	2675	End	3154
GI	none	Score	590
Exons	2675..3154, 2708..3121, 2746..3153		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	2861	End	3178
GI	none	Score	89
Exons	2861..3034, 3035..3178, 3037..3177		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o2.ts	Method	TBLASTX:Soybean
Start	2942	End	3202
GI	none	Score	299
Exons	2942..3202, 2947..3201		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o4.tm	Method	TBLASTX:Maize
Start	3001	End	3292
GI	none	Score	389
Exons	3001..3288, 3002..3292		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
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Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	3161	End	3787
GI	none	Score	722
Exons	3161..3787, 3163..3786		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	3341	End	3928
GI	none	Score	217
Exons	3341..3502, 3349..3495, 3500..3928, 3502..3927		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o6.tw	Method	TBLASTX:Wheat
Start	3787	End	4120
GI	none	Score	363
Exons	3787..3840, 3788..4120, 3794..3895, 3880..3996, 3938..4099		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o7.tm	Method	TBLASTX:Maize
Start	3929	End	4141
GI	none	Score	193
Exons	3929..4141		

Seq. No.	55700	Seq. ID	OJ000323_21.0419.C12
Gene No.	116695	Strand	-
Start	5015	End	9680
Name	OJ000323_21.0419.C12.o2.gs	Method	GENSCAN
Start	5015	End	5467
GI	none	Score	.96
Exons	5015..5467		

Seq. No.	55701	Seq. ID	OJ000323_21.0419.C13
Gene No.	116696	Strand	+
Start	1	End	2291
Name	OJ000323_21.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	2291
GI	7340881	Score	93
Exons	1..48, 180..369, 475..507, 2268..2291		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	55701	Seq. ID	OJ000323_21.0419.C13
Gene No.	116696	Strand	+
Start	1	End	2291
Name	OJ000323_21.0419.C13.o1.gp	Method	AAT/GAP
Start	230	End	438
GI	1631463	Score	345
Exons	230..438		
GI Descrip.	4680178/gb AF111709.1 AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2		

retrotransposon, complete sequences; and unknown genes

Seq. No.	55701	Seq. ID	OJ000323_21.0419.C13
Gene No.	116697	Strand	-
Start	625	End	3476
Name	OJ000323_21.0419.C13.o2.np	Method	AAT/NAP
Start	625	End	3476
GI	7228442	Score	2932
Exons	625..667, 1782..3476		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	55701	Seq. ID	OJ000323_21.0419.C13
Gene No.	116697	Strand	-
Start	625	End	3476
Name	OJ000323_21.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	2750	End	3130
GI	none	Score	79
Exons	2750..2926, 2780..2926, 2811..2930, 2924..3121, 2936..3130		

Seq. No.	55701	Seq. ID	OJ000323_21.0419.C13
Gene No.	116697	Strand	-
Start	625	End	3476
Name	OJ000323_21.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	2828	End	3424
GI	none	Score	143
Exons	2828..2899, 2963..3262, 3024..3245, 3296..3424, 3318..3416		

Seq. No.	55701	Seq. ID	OJ000323_21.0419.C13
Gene No.	116697	Strand	-
Start	625	End	3476
Name	OJ000323_21.0419.C13.o2.gp	Method	AAT/GAP
Start	2950	End	3381
GI	5701669	Score	845
Exons	2950..3381		
GI Descrip.	5441880/dbj BAA82378.1 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	55702	Seq. ID	OJ000323_21.0419.C14
Gene No.	116698	Strand	+
Start	1658	End	3648
Name	OJ000323_21.0419.C14.o2.gs	Method	GENSCAN
Start	1658	End	3492
GI	none	Score	.46
Exons	1658..2354, 2366..3492		

Seq. No.	55702	Seq. ID	OJ000323_21.0419.C14
Gene No.	116698	Strand	+
Start	1658	End	3648
Name	OJ000323_21.0419.C14.o2.np	Method	AAT/NAP
Start	1676	End	3648
GI	6358764	Score	1847
Exons	1676..3648		
GI Descrip.	(AC011665) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55702	Seq. ID	OJ000323_21.0419.C14
Gene No.	116699	Strand	-
Start	1	End	371
Name	OJ000323_21.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	371
GI	7228442	Score	621
Exons	1..371		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	55702	Seq. ID	OJ000323_21.0419.C14
Gene No.	116700	Strand	-
Start	823	End	975
Name	OJ000323_21.0419.C14.o1.gp	Method	AAT/GAP
Start	823	End	975
GI	7406_1.R1084	Score	229
Exons	823..975		
GI Descrip.	'1122315/emb CAA63901 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	55702	Seq. ID	OJ000323_21.0419.C14
Gene No.	116701	Strand	-
Start	1802	End	3624
Name	OJ000323_21.0419.C14.o2.tc	Method	TBLASTX:Cress
Start	1802	End	2919
GI	none	Score	129
Exons	1802..2065, 1802..2005, 1958..2425, 2066..2323, 2182..2316, 2309..2431, 2348..2431, 2437..2769, 2485..2781, 2647..2796, 2649..2849, 2650..2919, 2779..2859		

Seq. No.	55702	Seq. ID	OJ000323_21.0419.C14
Gene No.	116701	Strand	-
Start	1802	End	3624
Name	OJ000323_21.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	1805	End	3624
GI	none	Score	85
Exons	1805..1918, 1904..2320, 2018..2371, 2147..2374, 2440..2778, 2460..2777, 2461..2766, 2470..2811, 2494..2856, 2590..2721, 2683..3081, 2773..3105, 2779..3624, 2817..3509, 2986..3153		

Seq. No.	55702	Seq. ID	OJ000323_21.0419.C14
Gene No.	116701	Strand	-
Start	1802	End	3624
Name	OJ000323_21.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	1907	End	3363
GI	none	Score	74
Exons	1907..2065, 2066..2371, 2288..2428, 2437..2553, 2440..2850, 2493..2798, 2743..3213, 2889..3206, 3040..3153, 3289..3363		

Seq. No.	55702	Seq. ID	OJ000323_21.0419.C14
Gene No.	116701	Strand	-
Start	1802	End	3624
Name	OJ000323_21.0419.C14.o2.ts	Method	TBLASTX:Soybean
Start	2159	End	3060
GI	none	Score	113
Exons	2159..2362, 2303..2434, 2551..2805, 2551..2796, 2559..2804,		

2854..3060

Seq. No.	55702	Seq. ID	OJ000323_21.0419.C14
Gene No.	116701	Strand	
Start	1802	End	3624
Name	OJ000323_21.0419.C14.ol.tc	Method	TBLASTX:Cress
Start	2922	End	3603
GI	none	Score	51
Exons	2922..2954, 2923..2961, 2959..3603, 3001..3372, 3006..3572		

Seq. No.	55702	Seq. ID	OJ000323_21.0419.C14
Gene No.	116701	Strand	
Start	1802	End	3624
Name	OJ000323_21.0419.C14.ol.ts	Method	TBLASTX:Soybean
Start	3076	End	3600
GI	none	Score	475
Exons	3076..3600, 3078..3593, 3085..3594		

Seq. No.	55703	Seq. ID	OJ000323_21.0419.C16
Gene No.	116702	Strand	-
Start	1	End	475
Name	OJ000323_21.0419.C16.ol.np	Method	AAT/NAP
Start	1	End	468
GI	4836892	Score	533
Exons	1..468		
GI Descrip.	(AC007369) Putative RNA helicase [Arabidopsis thaliana]		

Seq. No.	55703	Seq. ID	OJ000323_21.0419.C16
Gene No.	116702	Strand	-
Start	1	End	475
Name	OJ000323_21.0419.C16.ol.tm	Method	TBLASTX:Maize
Start	244	End	475
GI	none	Score	253
Exons	244..474, 248..475		

Seq. No.	55704	Seq. ID	OJ000323_21.0419.C17
Gene No.	116703	Strand	+
Start	2778	End	4931
Name	OJ000323_21.0419.C17.ol.gs	Method	GENSCAN
Start	2778	End	4931
GI	none	Score	.82
Exons	2778..3020, 3035..3308, 4243..4931		

Seq. No.	55704	Seq. ID	OJ000323_21.0419.C17
Gene No.	116703	Strand	+
Start	2778	End	4931
Name	OJ000323_21.0419.C17.ol.gp	Method	AAT/GAP
Start	2780	End	3077
GI	426296	Score	581
Exons	2780..3077		

Seq. No.	55704	Seq. ID	OJ000323_21.0419.C17
Gene No.	116703	Strand	+
Start	2778	End	4931
Name	OJ000323_21.0419.C17.ol.np	Method	AAT/NAP
Start	2966	End	4906
GI	7488254	Score	351

Exons 2966..3308, 4243..4906
 GI Descrip. protein kinase homolog F24G24.190 - Arabidopsis thaliana
 gi|4538968|emb|CAB39792.1| (AL049488) putative protein kinase
 [Arabidopsis thaliana] gi|7267736|emb|CAB78162.1| (AL161517)
 putative protein kinase [Arabidopsis thaliana]

Seq. No.	55704	Seq. ID	OJ000323_21.0419.C17
Gene No.	116703	Strand	+
Start	2778	End	4931
Name	OJ000323_21.0419.C17.o2.gp	Method	AAT/GAP
Start	4252	End	4528
GI	702713	Score	503
Exons	4252..4528		

Seq. No.	55704	Seq. ID	OJ000323_21.0419.C17
Gene No.	116703	Strand	+
Start	2778	End	4931
Name	OJ000323_21.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	4254	End	4850
GI	none	Score	106
Exons	4254..4406, 4395..4442, 4530..4631, 4725..4850		

Seq. No.	55704	Seq. ID	OJ000323_21.0419.C17
Gene No.	116703	Strand	+
Start	2778	End	4931
Name	OJ000323_21.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	4257	End	4850
GI	none	Score	112
Exons	4257..4442, 4527..4631, 4529..4630, 4734..4850		

Seq. No.	55704	Seq. ID	OJ000323_21.0419.C17
Gene No.	116703	Strand	+
Start	2778	End	4931
Name	OJ000323_21.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	4257	End	4631
GI	none	Score	115
Exons	4257..4385, 4395..4442, 4530..4631		

Seq. No.	55704	Seq. ID	OJ000323_21.0419.C17
Gene No.	116704	Strand	
Start	6171	End	6354
Name	OJ000323_21.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	6171	End	6354
GI	none	Score	39
Exons	6171..6224, 6171..6227, 6172..6225, 6206..6352, 6209..6352, 6292..6354		

Seq. No.	55705	Seq. ID	OJ000323_21.0419.C18
Gene No.	116705	Strand	+
Start	715	End	1020
Name	OJ000323_21.0419.C18.o1.gp	Method	AAT/GAP
Start	715	End	1020
GI	none	Score	586
Exons	715..1020		

Seq. No.	55706	Seq. ID	OJ000323_21.0419.C19
Gene No.	116706	Strand	+

Start	430	End	3623
Name	OJ000323_21.0419.C19.ol.gs	Method	GENSCAN
Start	430	End	3151
GI	none	Score	.8
Exons	430..633, 1507..1585, 1671..1765, 2519..2598, 2855..2945, 3044..3151		
Seq. No.	55706	Seq. ID	OJ000323_21.0419.C19
Gene No.	116706	Strand	+
Start	430	End	3623
Name	OJ000323_21.0419.C19.ol.np	Method	AAT/NAP
Start	445	End	2647
GI	7460049	Score	347
Exons	445..633, 1507..1585, 1671..1765, 2312..2416, 2519..2647		
GI Descrip.	hypothetical protein F7L13.10 - Arabidopsis thaliana gi 4539403 emb CAB40036.1 (AL049524) putative protein [Arabidopsis thaliana] gi 7267740 emb CAB78166.1 (AL161517) putative protein [Arabidopsis thaliana]		
Seq. No.	55706	Seq. ID	OJ000323_21.0419.C19
Gene No.	116706	Strand	+
Start	430	End	3623
Name	OJ000323_21.0419.C19.ol.tm	Method	TBLASTX:Maize
Start	1712	End	3623
GI	none	Score	87
Exons	1712..1765, 2291..2422, 2311..2415, 2312..2416, 2490..2600, 2491..2601, 2509..2601, 2516..2647, 2846..2944, 2853..2945, 2856..2945, 3035..3157, 3041..3151, 3043..3156, 3549..3623, 3551..3622		
Seq. No.	55707	Seq. ID	OJ000323_21.0419.C20
Gene No.	116707	Strand	-
Start	1	End	758
Name	OJ000323_21.0419.C20.ol.np	Method	AAT/NAP
Start	1	End	758
GI	4836892	Score	1055
Exons	1..758		
GI Descrip.	(AC007369) Putative RNA helicase [Arabidopsis thaliana]		
Seq. No.	55707	Seq. ID	OJ000323_21.0419.C20
Gene No.	116707	Strand	-
Start	1	End	758
Name	OJ000323_21.0419.C20.ol.tc	Method	TBLASTX:Cress
Start	2	End	517
GI	none	Score	88
Exons	2..238, 12..149, 14..199, 209..517		
Seq. No.	55707	Seq. ID	OJ000323_21.0419.C20
Gene No.	116707	Strand	-
Start	1	End	758
Name	OJ000323_21.0419.C20.ol.tm	Method	TBLASTX:Maize
Start	2	End	634
GI	none	Score	72
Exons	2..199, 12..149, 209..634		
Seq. No.	55707	Seq. ID	OJ000323_21.0419.C20
Gene No.	116707	Strand	-

Start	1	End	758
Name	OJ000323_21.0419.C20.o1.gs	Method	GENSCAN
Start	83	End	679
GI	none	Score	.64
Exons	83..679		
Seq. No.	55707	Seq. ID	OJ000323_21.0419.C20
Gene No.	116707	Strand	-
Start	1	End	758
Name	OJ000323_21.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	447	End	748
GI	none	Score	93
Exons	447..629, 449..748		
Seq. No.	55708	Seq. ID	OJ000323_21.0419.C22
Gene No.	116708	Strand	-
Start	860	End	951
Name	OJ000323_21.0419.C22.o1.gs	Method	GENSCAN
Start	860	End	951
GI	none	Score	.61
Exons	860..951		
Seq. No.	55709	Seq. ID	OJ000323_21.0419.C23
Gene No.	116709	Strand	-
Start	548	End	961
Name	OJ000323_21.0419.C23.o1.gs	Method	GENSCAN
Start	548	End	961
GI	none	Score	.67
Exons	548..717, 773..961		
Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116710	Strand	+
Start	2199	End	5193
Name	OJ000323_21.0419.C24.o1.gs	Method	GENSCAN
Start	2199	End	5193
GI	none	Score	.67
Exons	2199..3121, 3208..3973, 4048..4235, 4311..4500, 4568..4672, 4745..5193		
Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116710	Strand	+
Start	2199	End	5193
Name	OJ000323_21.0419.C24.o1.np	Method	AAT/NAP
Start	2237	End	5190
GI	6691716	Score	2393
Exons	2237..3107, 3305..3497, 3579..3699, 3811..3973, 4048..4235, 4311..4410, 4556..4672, 4745..5190		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1 (AP000570) hypothetical protein [Oryza sativa]		
Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116711	Strand	+
Start	12171	End	13338
Name	OJ000323_21.0419.C24.o3.gs	Method	GENSCAN
Start	12171	End	13338
GI	none	Score	.53

Exons 12171..12259, 12383..12512, 13174..13338

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116712	Strand	+
Start	13664	End	16689
Name	OJ000323_21.0419.C24.o3.gp	Method	AAT/GAP
Start	13564	End	15988
GI	369 1.R1084	Score	2059

Exons 13564..13666, 14490..14567, 14672..14852, 14945..15042, 15292..15988

GI Descrip. '3123270/sp|P49398|RS4_ORYSA 1.0e-133 40S RIBOSOMAL PROTEIN S4 (SCAR PROTEIN SS620) >gi_2463335_emb_CAA75242_ (Y15009) ribosomal protein S4 [Oryza sativa]'

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116712	Strand	+
Start	13664	End	16689
Name	OJ000323_21.0419.C24.o4.gs	Method	GENSCAN
Start	13664	End	16689
GI	none	Score	.66

Exons 13664..13666, 14490..14567, 14672..14852, 14945..15042, 15292..15636, 16263..16540, 16671..16689

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116712	Strand	+
Start	13664	End	16689
Name	OJ000323_21.0419.C24.o3.np	Method	AAT/NAP
Start	14487	End	15725
GI	3914899	Score	1223

Exons 14487..14567, 14672..14852, 14945..15042, 15292..15725

GI Descrip. 40S RIBOSOMAL PROTEIN S4 gi|2331301 (AF013487) ribosomal protein S4 type I [Zea mays]

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116713	Strand	-
Start	779	End	926
Name	OJ000323_21.0419.C24.o1.gp	Method	AAT/GAP
Start	779	End	926
GI	uC-osflcyp177g01a1	Score	247

Exons 779..926

GI Descrip. '4884864/gb|AAD31846.1|AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116714	Strand	-
Start	5545	End	11812
Name	OJ000323_21.0419.C24.o11.tw	Method	TBLASTX:Wheat
Start	2357	End	2647
GI	none	Score	212

Exons 2357..2647, 2539..2607

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116714	Strand	-
Start	5545	End	11812
Name	OJ000323_21.0419.C24.o5.tw	Method	TBLASTX:Wheat
Start	5521	End	6135
GI	none	Score	81

Exons 5521..5658, 5644..5802, 5857..6135, 5873..5974, 6026..6115

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116714	Strand	-
Start	5545	End	11812
Name	OJ000323_21.0419.C24.o2.np	Method	AAT/NAP
Start	5545	End	11615
GI	5922631	Score	6631

Exons 5545..8070, 8677..9598, 9725..9876, 9919..10490, 10536..10738, 10988..11232, 11491..11615

GI Descrip. (AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116714	Strand	-
Start	5545	End	11812
Name	OJ000323_21.0419.C24.o6.tm	Method	TBLASTX:Maize
Start	5560	End	5793
GI	none	Score	101
Exons	5560..5661, 5561..5662, 5641..5793, 5642..5701		

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116714	Strand	-
Start	5545	End	11812
Name	OJ000323_21.0419.C24.o8.tm	Method	TBLASTX:Maize
Start	5905	End	6178
GI	none	Score	57
Exons	5905..5991, 6001..6084, 6014..6088, 6071..6178, 6079..6177		

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116714	Strand	-
Start	5545	End	11812
Name	OJ000323_21.0419.C24.o7.tw	Method	TBLASTX:Wheat
Start	6250	End	6635
GI	none	Score	110
Exons	6250..6441, 6250..6486, 6326..6484, 6485..6634, 6486..6635		

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116714	Strand	-
Start	5545	End	11812
Name	OJ000323_21.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	6280	End	6641
GI	none	Score	67
Exons	6280..6327, 6281..6328, 6314..6463, 6319..6486, 6332..6484, 6485..6640, 6486..6641		

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116714	Strand	-
Start	5545	End	11812
Name	OJ000323_21.0419.C24.o7.tm	Method	TBLASTX:Maize
Start	6869	End	7123
GI	none	Score	62

Exons 6869..7123, 7008..7115

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116714	Strand	-
Start	5545	End	11812
Name	OJ000323_21.0419.C24.o4.tw	Method	TBLASTX:Wheat
Start	6953	End	7375
GI	none	Score	274
Exons	6953..7375, 6963..7370, 7196..7372		

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116714	Strand	-
Start	5545	End	11812
Name	OJ000323_21.0419.C24.o3.ts	Method	TBLASTX:Soybean
Start	6996	End	7384
GI	none	Score	177
Exons	6996..7376, 6998..7240, 7280..7384		

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116714	Strand	-
Start	5545	End	11812
Name	OJ000323_21.0419.C24.o10.tw	Method	TBLASTX:Wheat
Start	7375	End	7661
GI	none	Score	103
Exons	7375..7659, 7376..7651, 7379..7660, 7584..7661		

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116714	Strand	-
Start	5545	End	11812
Name	OJ000323_21.0419.C24.o3.tm	Method	TBLASTX:Maize
Start	7499	End	7943
GI	none	Score	83
Exons	7499..7525, 7523..7666, 7536..7667, 7688..7942, 7689..7943		

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116714	Strand	-
Start	5545	End	11812
Name	OJ000323_21.0419.C24.o2.ts	Method	TBLASTX:Soybean
Start	7610	End	8011
GI	none	Score	46
Exons	7610..8011, 7644..7814, 7851..7994		

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116714	Strand	-
Start	5545	End	11812
Name	OJ000323_21.0419.C24.o3.tw	Method	TBLASTX:Wheat
Start	7665	End	8089
GI	none	Score	299
Exons	7665..8045, 7670..8089		

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116714	Strand	-
Start	5545	End	11812
Name	OJ000323_21.0419.C24.o2.tm	Method	TBLASTX:Maize
Start	8174	End	8530
GI	none	Score	209
Exons	8174..8530, 8184..8489		

Seq. No. 55710
 Gene No. 116714
 Start 5545
 Name OJ000323_21.0419.C24.o1.tw
 Start 8204
 GI none
 Exons 8204..8659, 8205..8660

Seq. ID OJ000323_21.0419.C24
 Strand -
 End 11812
 Method TBLASTX:Wheat
 End 8660
 Score 263

Seq. No. 55710
 Gene No. 116714
 Start 5545
 Name OJ000323_21.0419.C24.o4.ts
 Start 8255
 GI none
 Exons 8255..8389, 8396..8620

Seq. ID OJ000323_21.0419.C24
 Strand -
 End 11812
 Method TBLASTX:Soybean
 End 8620
 Score 138

Seq. No. 55710
 Gene No. 116714
 Start 5545
 Name OJ000323_21.0419.C24.o9.tm
 Start 8881
 GI none
 Exons 8881..9027, 8882..9028

Seq. ID OJ000323_21.0419.C24
 Strand -
 End 11812
 Method TBLASTX:Maize
 End 9028
 Score 114

Seq. No. 55710
 Gene No. 116714
 Start 5545
 Name OJ000323_21.0419.C24.o8.tw
 Start 8902
 GI none
 Exons 8902..9276, 8921..9241

Seq. ID OJ000323_21.0419.C24
 Strand -
 End 11812
 Method TBLASTX:Wheat
 End 9276
 Score 183

Seq. No. 55710
 Gene No. 116714
 Start 5545
 Name OJ000323_21.0419.C24.o9.tw
 Start 9912
 GI none
 Exons 9912..10313, 10045..10314

Seq. ID OJ000323_21.0419.C24
 Strand -
 End 11812
 Method TBLASTX:Wheat
 End 10314
 Score 119

Seq. No. 55710
 Gene No. 116714
 Start 5545
 Name OJ000323_21.0419.C24.o2.gp
 Start 11351
 GI uC-osflcyp177g01a1
 Exons 11351..11380, 11657..11812

Seq. ID OJ000323_21.0419.C24
 Strand -
 End 11812
 Method AAT/GAP
 End 11812
 Score 248

GI Descrip. '4884864/gb|AAD31846.1|AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'

Seq. No. 55710
 Gene No. 116715
 Start 13633
 Name OJ000323_21.0419.C24.o2.tw
 Start 13633
 GI none

Seq. ID OJ000323_21.0419.C24
 Strand -
 End 15792
 Method TBLASTX:Wheat
 End 15036
 Score 58

Exons 13633..13668, 14471..14566, 14490..14567, 14494..14580,
14671..14850, 14672..14863, 14672..14851, 14673..14852,
14944..15036, 14948..15034

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116715	Strand	
Start	13633	End	15792
Name	OJ000323_21.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	14483	End	15633
GI	none	Score	79
Exons	14483..14566, 14485..14559, 14490..14567, 14671..14850, 14672..14863, 14672..14851, 14934..15035, 14944..15048, 14945..15034, 15276..15611, 15286..15459, 15390..15557, 15514..15612, 15595..15633		

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116715	Strand	
Start	13633	End	15792
Name	OJ000323_21.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	14489	End	15690
GI	none	Score	142
Exons	14489..14563, 14490..14567, 14493..14567, 14671..14850, 14672..14863, 14687..14851, 14748..14855, 14937..15047, 14944..15048, 15276..15647, 15286..15459, 15290..15655, 15390..15635, 15488..15637, 15514..15690		

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116715	Strand	
Start	13633	End	15792
Name	OJ000323_21.0419.C24.o5.tm	Method	TBLASTX:Maize
Start	14490	End	15048
GI	none	Score	38
Exons	14490..14519, 14505..14567, 14528..14560, 14671..14862, 14672..14863, 14672..14869, 14943..15047, 14944..15048		

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116715	Strand	
Start	13633	End	15792
Name	OJ000323_21.0419.C24.o4.tm	Method	TBLASTX:Maize
Start	15266	End	15566
GI	none	Score	65
Exons	15266..15559, 15291..15332, 15291..15566, 15292..15459, 15390..15560, 15514..15561		

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116715	Strand	
Start	13633	End	15792
Name	OJ000323_21.0419.C24.o6.tw	Method	TBLASTX:Wheat
Start	15276	End	15580
GI	none	Score	73
Exons	15276..15578, 15284..15580, 15285..15338, 15286..15459, 15390..15578, 15494..15580		

Seq. No.	55710	Seq. ID	OJ000323_21.0419.C24
Gene No.	116715	Strand	
Start	13633	End	15792
Name	OJ000323_21.0419.C24.o12.tw	Method	TBLASTX:Wheat

Start	15582	End	15792
GI	none	Score	163
Exons	15582..15647, 15583..15690, 15584..15658, 15686..15727, 15688..15720, 15732..15785, 15752..15787, 15754..15792		

Seq. No.	55711	Seq. ID	OJ000323_21.0419.C27
Gene No.	116716	Strand	-
Start	1	End	633
Name	OJ000323_21.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	630
GI	5669871	Score	353
Exons	1..28, 231..303, 382..630		
GI Descrip.	(AF135014) dihydrolipoamide S-acetyltransferase [Zea mays]		

Seq. No.	55711	Seq. ID	OJ000323_21.0419.C27
Gene No.	116716	Strand	-
Start	1	End	633
Name	OJ000323_21.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	227	End	633
GI	none	Score	113
Exons	227..304, 230..298, 232..306, 232..321, 379..504, 380..628, 381..602, 577..633, 577..630, 588..632		

Seq. No.	55711	Seq. ID	OJ000323_21.0419.C27
Gene No.	116716	Strand	-
Start	1	End	633
Name	OJ000323_21.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	232	End	630
GI	none	Score	88
Exons	232..309, 233..310, 371..478, 379..492, 577..630		

Seq. No.	55712	Seq. ID	OJ000323_21.0419.C28
Gene No.	116717	Strand	+
Start	15	End	1667
Name	OJ000323_21.0419.C28.o1.gs	Method	GENSCAN
Start	15	End	1667
GI	none	Score	.75
Exons	15..91, 1634..1667		

Seq. No.	55712	Seq. ID	OJ000323_21.0419.C28
Gene No.	116718	Strand	+
Start	2621	End	5741
Name	OJ000323_21.0419.C28.o2.gs	Method	GENSCAN
Start	2621	End	5733
GI	none	Score	.81
Exons	2621..3047, 3423..4294, 5297..5521, 5539..5733		

Seq. No.	55712	Seq. ID	OJ000323_21.0419.C28
Gene No.	116718	Strand	+
Start	2621	End	5741
Name	OJ000323_21.0419.C28.o3.tm	Method	TBLASTX:Maize
Start	2824	End	3027
GI	none	Score	79
Exons	2824..2952, 2873..2953, 2947..3018, 2948..3025, 2954..3022, 2965..3027		

Seq. No.	55712	Seq. ID	OJ000323_21.0419.C28
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Gene No.	116718	Strand	+
Start	2621	End	5741
Name	OJ000323_21.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	2873	End	5741
GI	none	Score	46
Exons	2873..2911, 2890..3048, 2891..3049, 2982..3053, 3404..3805, 3421..3489, 3496..3801, 3796..3852, 3815..3850, 3853..3978, 3866..3982, 3997..4287, 4034..4294, 5291..5536, 5299..5373, 5449..5478, 5575..5604, 5577..5741, 5614..5739		

Seq. No.	55712	Seq. ID	OJ000323_21.0419.C28
Gene No.	116718	Strand	+
Start	2621	End	5741
Name	OJ000323_21.0419.C28.o1.np	Method	AAT/NAP
Start	2942	End	5741
GI	3136313	Score	2002
Exons	2942..3047, 3423..4294, 5297..5741		
GI Descrip.	(AF062735) soluble acid invertase [Saccharum officinarum]		

Seq. No.	55712	Seq. ID	OJ000323_21.0419.C28
Gene No.	116718	Strand	+
Start	2621	End	5741
Name	OJ000323_21.0419.C28.o1.tc	Method	TBLASTX:Cress
Start	2956	End	5730
GI	none	Score	163
Exons	2956..3048, 2957..3049, 3421..3489, 3422..3493, 3446..3817, 3494..3571, 3496..3804, 3815..3850, 3857..3982, 3865..3978, 3997..4152, 4034..4153, 4145..4294, 5291..5398, 5299..5364, 5405..5485, 5425..5478, 5575..5604, 5577..5726, 5623..5730		

Seq. No.	55712	Seq. ID	OJ000323_21.0419.C28
Gene No.	116718	Strand	+
Start	2621	End	5741
Name	OJ000323_21.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	3421	End	4102
GI	none	Score	716
Exons	3421..3855, 3422..3856, 3833..3982, 3850..3981, 3982..4101, 4034..4102		

Seq. No.	55712	Seq. ID	OJ000323_21.0419.C28
Gene No.	116718	Strand	+
Start	2621	End	5741
Name	OJ000323_21.0419.C28.o2.tw	Method	TBLASTX:Wheat
Start	3472	End	5500
GI	none	Score	290
Exons	3472..3561, 5291..5500, 5296..5478		

Seq. No.	55712	Seq. ID	OJ000323_21.0419.C28
Gene No.	116718	Strand	+
Start	2621	End	5741
Name	OJ000323_21.0419.C28.o3.tw	Method	TBLASTX:Wheat
Start	3653	End	3934
GI	none	Score	239
Exons	3653..3856, 3670..3855, 3833..3934		

Seq. No.	55712	Seq. ID	OJ000323_21.0419.C28
Gene No.	116718	Strand	+

Start	2621	End	5741
Name	OJ000323_21.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	3947	End	4294
GI	none	Score	52
Exons	3947..4018, 3955..3978, 4030..4125, 4034..4294, 4090..4287		

Seq. No.	55712	Seq. ID	OJ000323_21.0419.C28
Gene No.	116718	Strand	+
Start	2621	End	5741
Name	OJ000323_21.0419.C28.o2.tm	Method	TBLASTX:Maize
Start	4123	End	5741
GI	none	Score	290
Exons	4123..4287, 4124..4294, 5291..5542, 5293..5481, 5456..5533, 5575..5613, 5622..5741, 5623..5739, 5625..5741		

Seq. No.	55712	Seq. ID	OJ000323_21.0419.C28
Gene No.	116718	Strand	+
Start	2621	End	5741
Name	OJ000323_21.0419.C28.o4.tw	Method	TBLASTX:Wheat
Start	5504	End	5741
GI	none	Score	57
Exons	5504..5542, 5589..5669, 5602..5673, 5653..5739, 5676..5741		

Seq. No.	55713	Seq. ID	OJ000323_21.0419.C30
Gene No.	116719	Strand	-
Start	509	End	1081
Name	OJ000323_21.0419.C30.o1.gs	Method	GENSCAN
Start	509	End	1081
GI	none	Score	.78
Exons	509..549, 827..924, 1008..1081		

Seq. No.	55714	Seq. ID	OJ000323_21.0419.C31
Gene No.	116720	Strand	-
Start	418	End	995
Name	OJ000323_21.0419.C31.o1.gs	Method	GENSCAN
Start	418	End	995
GI	none	Score	.66
Exons	418..520, 622..683, 737..995		

Seq. No.	55715	Seq. ID	OJ000303_21.0419.C1
Gene No.	116721	Strand	+
Start	208	End	1694
Name	OJ000303_21.0419.C1.o1.np	Method	AAT/NAP
Start	208	End	1694
GI	5852093	Score	65
Exons	208..228, 1569..1694		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	55715	Seq. ID	OJ000303_21.0419.C1
Gene No.	116721	Strand	+
Start	208	End	1694
Name	OJ000303_21.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	896	End	1035
GI	none	Score	78
Exons	896..973, 897..1034, 898..1035, 898..1035		

Seq. No.	55715	Seq. ID	OJ000303_21.0419.C1
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Gene No.	116721	Strand	+
Start	208	End	1694
Name	OJ000303_21.0419.C1.o1.gs	Method	GENSCAN
Start	1315	End	1425
GI	none	Score	.98
Exons	1315..1425		

Seq. No.	55716	Seq. ID	OJ000303_21.0419.C3
Gene No.	116722	Strand	+
Start	2208	End	7992
Name	OJ000303_21.0419.C3.o1.gs	Method	GENSCAN
Start	2208	End	7926
GI	none	Score	.58
Exons	2208..2285, 2367..2488, 3409..3516, 3725..3788, 4195..4216, 5042..5128, 5429..5518, 5589..5675, 5764..5889, 6590..7926		

Seq. No.	55716	Seq. ID	OJ000303_21.0419.C3
Gene No.	116722	Strand	+
Start	2208	End	7992
Name	OJ000303_21.0419.C3.o1.np	Method	AAT/NAP
Start	4972	End	7992
GI	2829910	Score	1895
Exons	4972..5128, 5429..5518, 5589..5675, 5764..5914, 6598..7992		
GI Descrip.	(AC002291) Unknown protein, contains regulator of chromosome condensation motifs [Arabidopsis thaliana]		

Seq. No.	55716	Seq. ID	OJ000303_21.0419.C3
Gene No.	116722	Strand	+
Start	2208	End	7992
Name	OJ000303_21.0419.C3.o2.ts	Method	TBLASTX:Soybean
Start	5069	End	6958
GI	none	Score	96
Exons	5069..5128, 5071..5130, 5428..5517, 5430..5516, 5591..5674, 5592..5678, 5763..5837, 5763..5828, 5764..5838, 5764..5832, 6716..6757, 6742..6789, 6742..6810, 6805..6858, 6806..6859, 6875..6958		

Seq. No.	55716	Seq. ID	OJ000303_21.0419.C3
Gene No.	116722	Strand	+
Start	2208	End	7992
Name	OJ000303_21.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	6642	End	6811
GI	none	Score	134
Exons	6642..6749, 6643..6750, 6644..6748, 6744..6800, 6745..6795, 6746..6811		

Seq. No.	55716	Seq. ID	OJ000303_21.0419.C3
Gene No.	116722	Strand	+
Start	2208	End	7992
Name	OJ000303_21.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	6896	End	7978
GI	none	Score	747
Exons	6896..7489, 6902..7396, 7117..7488, 7291..7482, 7504..7539, 7505..7702, 7505..7639, 7787..7978, 7787..7852, 7793..7972		

Seq. No.	55716	Seq. ID	OJ000303_21.0419.C3
Gene No.	116722	Strand	+

Start	2208	End	7992
Name	OJ000303_21.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	6920	End	7972
GI	none	Score	61
Exons	6920..7057, 6959..7060, 7013..7198, 7115..7198, 7241..7381, 7289..7321, 7309..7419, 7310..7477, 7433..7519, 7462..7488, 7499..7741, 7504..7746, 7505..7717, 7505..7564, 7508..7876, 7782..7865, 7787..7876, 7808..7972		

Seq. No.	55716	Seq. ID	OJ000303_21.0419.C3
Gene No.	116722	Strand	+
Start	2208	End	7992
Name	OJ000303_21.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	6959	End	7992
GI	none	Score	146
Exons	6959..7156, 6968..7057, 7013..7186, 7112..7198, 7241..7477, 7331..7483, 7505..7639, 7513..7746, 7514..7990, 7523..7954, 7695..7988, 7813..7992, 7813..7992		

Seq. No.	55717	Seq. ID	OJ000303_21.0419.C4
Gene No.	116723	Strand	+
Start	1	End	2626
Name	OJ000303_21.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	2626
GI	2829910	Score	329
Exons	1..299, 377..523, 1084..1156, 1187..1601, 1720..1838, 2595..2626		
GI Descrip.	(AC002291) Unknown protein, contains regulator of chromosome condensation motifs [Arabidopsis thaliana]		

Seq. No.	55717	Seq. ID	OJ000303_21.0419.C4
Gene No.	116723	Strand	+
Start	1	End	2626
Name	OJ000303_21.0419.C4.o1.gs	Method	GENSCAN
Start	39	End	1837
GI	none	Score	.99
Exons	39..299, 377..523, 1084..1601, 1720..1837		

Seq. No.	55717	Seq. ID	OJ000303_21.0419.C4
Gene No.	116724	Strand	+
Start	5172	End	5441
Name	OJ000303_21.0419.C4.o3.gs	Method	GENSCAN
Start	5172	End	5441
GI	none	Score	.97
Exons	5172..5441		

Seq. No.	55717	Seq. ID	OJ000303_21.0419.C4
Gene No.	116725	Strand	-
Start	2813	End	4669
Name	OJ000303_21.0419.C4.o2.gs	Method	GENSCAN
Start	2813	End	4669
GI	none	Score	.95
Exons	2813..3264, 4612..4669		

Seq. No.	55717	Seq. ID	OJ000303_21.0419.C4
Gene No.	116726	Strand	-
Start	7712	End	8693
Name	OJ000303_21.0419.C4.o1.tm	Method	TBLASTX:Maize

Start	1486	End	1822
GI	none	Score	176
Exons	1486..1614, 1488..1601, 1706..1822, 1717..1821		

Seq. No.	55717	Seq. ID	OJ000303_21.0419.C4
Gene No.	116726	Strand	-
Start	7712	End	8693
Name	OJ000303_21.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	1494	End	1813
GI	none	Score	161
Exons	1494..1613, 1495..1614, 1706..1813, 1717..1809		

Seq. No.	55717	Seq. ID	OJ000303_21.0419.C4
Gene No.	116726	Strand	-
Start	7712	End	8693
Name	OJ000303_21.0419.C4.o4.gs	Method	GENSCAN
Start	7712	End	8693
GI	none	Score	.81
Exons	7712..7830, 8592..8693		

Seq. No.	55718	Seq. ID	OJ000303_21.0419.C5
Gene No.	116727	Strand	+
Start	2469	End	3039
Name	OJ000303_21.0419.C5.o1.gs	Method	GENSCAN
Start	2469	End	3012
GI	none	Score	.58
Exons	2469..3012		

Seq. No.	55718	Seq. ID	OJ000303_21.0419.C5
Gene No.	116727	Strand	+
Start	2469	End	3039
Name	OJ000303_21.0419.C5.o1.np	Method	AAT/NAP
Start	2619	End	3039
GI	6671940	Score	301
Exons	2619..3039		
GI Descrip.	(AC016795) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55718	Seq. ID	OJ000303_21.0419.C5
Gene No.	116727	Strand	+
Start	2469	End	3039
Name	OJ000303_21.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	2648	End	2924
GI	none	Score	137
Exons	2648..2749, 2649..2750, 2765..2899, 2769..2924		

Seq. No.	55718	Seq. ID	OJ000303_21.0419.C5
Gene No.	116727	Strand	+
Start	2469	End	3039
Name	OJ000303_21.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	2648	End	2921
GI	none	Score	148
Exons	2648..2749, 2649..2756, 2658..2750, 2762..2899, 2763..2921		

Seq. No.	55718	Seq. ID	OJ000303_21.0419.C5
Gene No.	116727	Strand	+
Start	2469	End	3039
Name	OJ000303_21.0419.C5.o1.tw	Method	TBLASTX:Wheat

Start	2649	End	2861
GI	none	Score	153
Exons	2649..2750, 2655..2750, 2763..2783, 2795..2860, 2796..2861		

Seq. No.	55719	Seq. ID	OJ000303_21.0419.C6
Gene No.	116728	Strand	+
Start	817	End	2742
Name	OJ000303_21.0419.C6.o1.gs	Method	GENSCAN
Start	817	End	2742
GI	none	Score	.46
Exons	817..939, 2179..2314, 2588..2742		

Seq. No.	55720	Seq. ID	OJ000303_21.0419.C8
Gene No.	116729	Strand	-
Start	36	End	176
Name	OJ000303_21.0419.C8.o1.gs	Method	GENSCAN
Start	36	End	176
GI	none	Score	.58
Exons	36..71, 107..176		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116730	Strand	+
Start	349	End	5615
Name	OJ000303_21.0419.C9.o1.gs	Method	GENSCAN
Start	349	End	5615
GI	none	Score	.75
Exons	349..398, 881..920, 2330..4628, 5098..5615		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116730	Strand	+
Start	349	End	5615
Name	OJ000303_21.0419.C9.o1.np	Method	AAT/NAP
Start	1641	End	5612
GI	7434420	Score	2065
Exons	1641..1697, 2330..4628, 5098..5612		
GI Descrip.	receptor-like protein kinase (EC 2.7.1.-) - rice gi 1707642 emb CAA69028.1 (Y07748) TMK [Oryza sativa]		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116730	Strand	+
Start	349	End	5615
Name	OJ000303_21.0419.C9.o1.gp	Method	AAT/GAP
Start	2182	End	2573
GI	uC-osflcyp157b11b1	Score	740
Exons	2182..2573		
GI Descrip.	'5262765/emb CAB45913.1 8.0e-13 (AL080283) putative protein [Arabidopsis thaliana]'		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116730	Strand	+
Start	349	End	5615
Name	OJ000303_21.0419.C9.o2.gp	Method	AAT/GAP
Start	2965	End	3541
GI	43640_1.R1084	Score	1150
Exons	2965..3541		
GI Descrip.	'1174718/sp P43298 TMK1 ARATH 3.0e-38 PUTATIVE RECEPTOR PROTEIN KINASE TMK1 PRECURSOR >gi_322579_pir__JQ1674 receptor protein		

kinase TMK1 (EC 2.7.1.-) precursor - Arabidopsis thaliana
>gi_166888 (L00670) protein kinase [Arabidopsis thaliana]

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116731	Strand	+
Start	7547	End	7955
Name	OJ000303_21.0419.C9.o4.gp	Method	AAT/GAP
Start	7547	End	7955
GI	none	Score	814
Exons	7547..7955		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116732	Strand	+
Start	12758	End	15997
Name	OJ000303_21.0419.C9.o3.gs	Method	GENSCAN
Start	12758	End	15997
GI	none	Score	.5
Exons	12758..13009, 13254..14090, 14961..15200, 15814..15904, 15942..15997		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116732	Strand	+
Start	12758	End	15997
Name	OJ000303_21.0419.C9.o7.gp	Method	AAT/GAP
Start	13252	End	13589
GI	none	Score	654
Exons	13252..13589		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116732	Strand	+
Start	12758	End	15997
Name	OJ000303_21.0419.C9.o8.gp	Method	AAT/GAP
Start	13706	End	14171
GI	3762480	Score	836
Exons	13706..14171		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116733	Strand	+
Start	17280	End	20064
Name	OJ000303_21.0419.C9.o4.gs	Method	GENSCAN
Start	17280	End	19575
GI	none	Score	.69
Exons	17280..17290, 18001..18124, 18264..18359, 19130..19250, 19417..19575		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116733	Strand	+
Start	17280	End	20064
Name	OJ000303_21.0419.C9.o4.np	Method	AAT/NAP
Start	17965	End	20064
GI	7378639	Score	524
Exons	17965..18124, 18264..18359, 19130..19335, 19417..19654, 20028..20064		

GI Descrip. (AL162751) putative protein [Arabidopsis thaliana]

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116734	Strand	-

Start	5509	End	5961
Name	OJ000303_21.0419.C9.o3.gp	Method	AAT/GAP
Start	5509	End	5961
GI	none	Score	882
Exons	5509..5961		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116735	Strand	-
Start	6734	End	11025
Name	OJ000303_21.0419.C9.o7.tm	Method	TBLASTX:Maize
Start	2375	End	2749
GI	none	Score	66
Exons	2375..2443, 2483..2566, 2491..2565, 2623..2724, 2636..2704, 2705..2749		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116735	Strand	-
Start	6734	End	11025
Name	OJ000303_21.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	2429	End	5620
GI	none	Score	34
Exons	2429..2464, 2486..2563, 2623..2772, 2636..2761, 2783..2878, 2798..2938, 2813..2989, 2828..2938, 2891..2986, 2999..3091, 2999..3160, 3107..3244, 3107..3238, 3295..3657, 3299..3658, 3428..3547, 3491..3664, 3860..3964, 3995..4651, 4030..4446, 4256..4624, 4477..4659, 5093..5170, 5094..5507, 5276..5461, 5511..5615, 5561..5620		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116735	Strand	-
Start	6734	End	11025
Name	OJ000303_21.0419.C9.o2.ts	Method	TBLASTX:Soybean
Start	2749	End	3073
GI	none	Score	238
Exons	2749..3018, 2750..2992, 2999..3073		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116735	Strand	-
Start	6734	End	11025
Name	OJ000303_21.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	2786	End	3670
GI	none	Score	82
Exons	2786..2923, 2789..2941, 2992..3603, 2999..3604, 3476..3619, 3509..3619, 3511..3618, 3548..3670		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116735	Strand	-
Start	6734	End	11025
Name	OJ000303_21.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	3074	End	5627
GI	none	Score	96
Exons	3074..3241, 3422..3568, 3458..3721, 3617..3724, 3808..3840, 3860..4567, 4004..4201, 4030..4566, 4567..4626, 4574..4627, 5093..5176, 5094..5201, 5199..5507, 5199..5504, 5216..5506, 5308..5508, 5505..5627, 5538..5615, 5561..5620		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
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Gene No.	116735	Strand	-
Start	6734	End	11025
Name	OJ000303_21.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	3920	End	4498
GI	none	Score	649
Exons	3920..4498, 3965..4207, 4039..4497		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116735	Strand	-
Start	6734	End	11025
Name	OJ000303_21.0419.C9.o2.tw	Method	TBLASTX:Wheat
Start	4334	End	5193
GI	none	Score	472
Exons	4334..4627, 4336..4626, 5093..5191, 5094..5192, 5097..5192, 5107..5193		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116735	Strand	-
Start	6734	End	11025
Name	OJ000303_21.0419.C9.o4.tm	Method	TBLASTX:Maize
Start	5084	End	5477
GI	none	Score	105
Exons	5084..5179, 5094..5201, 5094..5201, 5199..5294, 5290..5388, 5294..5389, 5295..5390, 5308..5391, 5375..5464, 5391..5477, 5403..5477		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116735	Strand	-
Start	6734	End	11025
Name	OJ000303_21.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	5202	End	5567
GI	none	Score	503
Exons	5202..5540, 5202..5540, 5532..5567		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116735	Strand	-
Start	6734	End	11025
Name	OJ000303_21.0419.C9.o2.gs	Method	GENSCAN
Start	6734	End	10998
GI	none	Score	.7
Exons	6734..6822, 7256..7406, 8473..8587, 8971..9005, 10442..10534, 10616..10666, 10804..10998		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116735	Strand	-
Start	6734	End	11025
Name	OJ000303_21.0419.C9.o5.gp	Method	AAT/GAP
Start	8108	End	8332
GI	3762689	Score	395
Exons	8108..8332		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116735	Strand	-
Start	6734	End	11025
Name	OJ000303_21.0419.C9.o2.np	Method	AAT/NAP
Start	8313	End	10989
GI	7489414	Score	643

Exons 8313..8396, 8473..8587, 10169..10266, 10442..10534,
10616..10666, 10768..10989
GI Descrip. probable bis(5'-nucleosyl)-tetrphosphatase (asymmetrical) (EC
3.6.1.17) - barley gi|2564253|emb|CAB17083.1| (Z99996)
diadenosine 5',5''-P1,P4-tetrphosphate hydrolase [Hordeum
vulgare]

Seq. No. 55721 Seq. ID OJ000303_21.0419.C9
Gene No. 116735 Strand -
Start 6734 End 11025
Name OJ000303_21.0419.C9.o6.tm Method TBLASTX:Maize
Start 8318 End 10855
GI none Score 82
Exons 8318..8398, 8319..8405, 8322..8405, 8323..8406, 8446..8586,
8472..8588, 8472..8588, 8474..8593, 10159..10200, 10166..10201,
10201..10263, 10202..10279, 10202..10267, 10429..10536,
10430..10537, 10430..10540, 10443..10568, 10614..10667,
10616..10669, 10617..10667, 10756..10836, 10769..10855

Seq. No. 55721 Seq. ID OJ000303_21.0419.C9
Gene No. 116735 Strand -
Start 6734 End 11025
Name OJ000303_21.0419.C9.o3.tc Method TBLASTX:Cress
Start 8329 End 10836
GI none Score 59
Exons 8329..8406, 8340..8405, 8446..8565, 8477..8557, 8557..8586,
10153..10197, 10154..10186, 10204..10266, 10205..10264,
10427..10537, 10430..10540, 10443..10562, 10483..10575,
10616..10675, 10617..10670, 10780..10836, 10781..10834

Seq. No. 55721 Seq. ID OJ000303_21.0419.C9
Gene No. 116735 Strand -
Start 6734 End 11025
Name OJ000303_21.0419.C9.o6.gp Method AAT/GAP
Start 8353 End 11025
GI 9700_1.R1084 Score 1069
Exons 8353..8396, 8473..8587, 10169..10266, 10442..10534,
10616..10666, 10768..11025
GI Descrip. '2564253/emb|CAB17083| 2.0e-50 (Z99996) diadenosine
5',5''-P1,P4-tetrphosphate hydrolase [Hordeum vulgare]'

Seq. No. 55721 Seq. ID OJ000303_21.0419.C9
Gene No. 116735 Strand -
Start 6734 End 11025
Name OJ000303_21.0419.C9.o3.ts Method TBLASTX:Soybean
Start 10174 End 10843
GI none Score 63
Exons 10174..10200, 10201..10266, 10202..10267, 10429..10536,
10430..10537, 10430..10540, 10440..10565, 10615..10668,
10616..10669, 10616..10669, 10789..10836, 10790..10843

Seq. No. 55721 Seq. ID OJ000303_21.0419.C9
Gene No. 116735 Strand -
Start 6734 End 11025
Name OJ000303_21.0419.C9.o3.tw Method TBLASTX:Wheat
Start 10194 End 10995
GI none Score 72

Exons 10194..10268, 10201..10281, 10201..10263, 10202..10294,
10202..10267, 10430..10540, 10443..10568, 10600..10668,
10609..10671, 10610..10672, 10756..10836, 10769..10870,
10975..10995

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116736	Strand	
Start	12967	End	19552
Name	OJ000303_21.0419.C9.o3.tm	Method	TBLASTX:Maize
Start	12967	End	19552
GI	none	Score	65
Exons	12967..13083, 17981..18031, 17983..18033, 17991..18032, 18034..18126, 18038..18127, 18095..18127, 18261..18359, 18261..18359, 18263..18361, 18263..18364, 19079..19333, 19127..19333, 19128..19334, 19391..19519, 19414..19509, 19513..19551, 19514..19552		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116736	Strand	
Start	12967	End	19552
Name	OJ000303_21.0419.C9.o5.tm	Method	TBLASTX:Maize
Start	13416	End	14120
GI	none	Score	90
Exons	13416..13475, 13424..13528, 13472..13633, 13473..13634, 13749..13784, 13842..13916, 13932..13961, 13988..14062, 13989..14060, 14051..14104, 14052..14120		

Seq. No.	55721	Seq. ID	OJ000303_21.0419.C9
Gene No.	116736	Strand	
Start	12967	End	19552
Name	OJ000303_21.0419.C9.o2.tc	Method	TBLASTX:Cress
Start	18038	End	19540
GI	none	Score	115
Exons	18038..18127, 18046..18120, 18261..18359, 19127..19324, 19127..19318, 19384..19479, 19391..19540		

Seq. No.	55722	Seq. ID	OJ000303_21.0419.C10
Gene No.	116737	Strand	+
Start	1	End	3558
Name	OJ000303_21.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	3280
GI	7378639	Score	1114
Exons	1..295, 920..1125, 1491..1691, 1793..1892, 2015..2124, 2224..2370, 3166..3280		

GI Descrip. (AL162751) putative protein [Arabidopsis thaliana]

Seq. No.	55722	Seq. ID	OJ000303_21.0419.C10
Gene No.	116737	Strand	+
Start	1	End	3558
Name	OJ000303_21.0419.C10.o1.gs	Method	GENSCAN
Start	83	End	3274
GI	none	Score	.77
Exons	83..295, 920..1125, 1491..1691, 1793..1892, 2015..2124, 2224..2370, 3166..3274		

Seq. No.	55722	Seq. ID	OJ000303_21.0419.C10
Gene No.	116737	Strand	+

Start 1 End 3558
 Name OJ000303_21.0419.C10.o1.gp Method AAT/GAP
 Start 254 End 1870
 GI 18293_1.R1084 Score 986
 Exons 254..295, 920..1125, 1491..1691, 1793..1870
 GI Descrip. '100226/pir||S21495 8.0e-25 hypothetical protein - tomato
 >gi_19275_emb_CAA78112_ (Z12127) protein of unknown function
 [Lycopersicon esculentum] >gi_445619_prf_1909366A Leu zipper
 protein [Lycopersicon esculentum]'

Seq. No. 55722 Seq. ID OJ000303_21.0419.C10
 Gene No. 116737 Strand +
 Start 1 End 3558
 Name OJ000303_21.0419.C10.o2.gp Method AAT/GAP
 Start 2247 End 3558
 GI 17603_1.R1084 Score 960
 Exons 2247..2370, 3166..3558
 GI Descrip. '4587550/gb|AAD25781.1|AC006577_17 5.0e-12 (AC006577) EST
 gb_R64848 comes from this gene. [Arabidopsis thaliana]'

Seq. No. 55722 Seq. ID OJ000303_21.0419.C10
 Gene No. 116738 Strand +
 Start 4874 End 9068
 Name OJ000303_21.0419.C10.o2.tm Method TBLASTX:Maize
 Start 1 End 7595
 GI none Score 36
 Exons 1..15, 67..237, 83..313, 83..310, 919..1125, 920..1126,
 1482..1577, 1492..1536, 1530..1598, 1531..1596, 6605..6658,
 6662..6700, 6794..6949, 6794..6961, 7018..7224, 7019..7234,
 7025..7234, 7389..7595, 7391..7594

Seq. No. 55722 Seq. ID OJ000303_21.0419.C10
 Gene No. 116738 Strand +
 Start 4874 End 9068
 Name OJ000303_21.0419.C10.o1.ts Method TBLASTX:Soybean
 Start 67 End 7240
 GI none Score 264
 Exons 67..237, 83..310, 83..295, 6791..6949, 6793..6945, 7018..7203,
 7019..7237, 7028..7240

Seq. No. 55722 Seq. ID OJ000303_21.0419.C10
 Gene No. 116738 Strand +
 Start 4874 End 9068
 Name OJ000303_21.0419.C10.o1.tm Method TBLASTX:Maize
 Start 1599 End 8727
 GI none Score 156
 Exons 1599..1691, 1600..1692, 1608..1700, 1790..1858, 1791..1850,
 1849..1893, 1851..1895, 2013..2108, 2013..2105, 2014..2127,
 2221..2370, 2222..2371, 2222..2371, 2223..2381, 2223..2384,
 3161..3274, 3166..3276, 3166..3273, 7809..7913, 7810..7905,
 7963..8028, 7965..8027, 8028..8072, 8029..8073, 8156..8206,
 8158..8202, 8377..8526, 8378..8527, 8634..8726, 8635..8727

Seq. No. 55722 Seq. ID OJ000303_21.0419.C10
 Gene No. 116738 Strand +
 Start 4874 End 9068
 Name OJ000303_21.0419.C10.o2.gs Method GENSCAN

Start	4874	End	9068
GI	none	Score	.8
Exons	4874..5044, 5126..5221, 5325..5428, 5528..5623, 6469..6702, 6799..6937, 7019..7231, 7389..7594, 7701..7901, 7971..8070, 8159..8280, 8380..8526, 8921..9068		

Seq. No.	55722	Seq. ID	OJ000303_21.0419.C10
Gene No.	116738	Strand	+
Start	4874	End	9068
Name	OJ000303_21.0419.C10.o2.np	Method	AAT/NAP
Start	4886	End	8748
GI	7378639	Score	1003
Exons	4886..5063, 5145..5221, 6162..6369, 6469..6702, 6799..6937, 7019..7231, 7389..7594, 7701..7901, 7971..8070, 8159..8280, 8380..8526, 8634..8748		

GI Descrip. (AL162751) putative protein [Arabidopsis thaliana]

Seq. No.	55722	Seq. ID	OJ000303_21.0419.C10
Gene No.	116738	Strand	+
Start	4874	End	9068
Name	OJ000303_21.0419.C10.o3.np	Method	AAT/NAP
Start	5448	End	8748
GI	7378639	Score	928
Exons	5448..5534, 6138..6369, 6469..6702, 6799..6937, 7019..7231, 7389..7594, 7701..7901, 7971..8070, 8159..8280, 8380..8526, 8634..8748		

GI Descrip. (AL162751) putative protein [Arabidopsis thaliana]

Seq. No.	55722	Seq. ID	OJ000303_21.0419.C10
Gene No.	116738	Strand	+
Start	4874	End	9068
Name	OJ000303_21.0419.C10.o4.np	Method	AAT/NAP
Start	5517	End	8748
GI	7378639	Score	935
Exons	5517..5553, 6178..6369, 6469..6702, 6799..6937, 7019..7231, 7389..7594, 7701..7901, 7971..8070, 8159..8280, 8380..8526, 8634..8748		

GI Descrip. (AL162751) putative protein [Arabidopsis thaliana]

Seq. No.	55722	Seq. ID	OJ000303_21.0419.C10
Gene No.	116738	Strand	+
Start	4874	End	9068
Name	OJ000303_21.0419.C10.o5.np	Method	AAT/NAP
Start	6799	End	8734
GI	7486380	Score	259
Exons	6799..6937, 7019..7231, 7389..7582, 7661..7901, 7971..8083, 8313..8526, 8634..8734		

GI Descrip. hypothetical protein F3L17.110 - Arabidopsis thaliana
gi|5262765|emb|CAB45913.1| (AL080283) putative protein
[Arabidopsis thaliana] gi|7270057|emb|CAB79872.1| (AL161579)
putative protein [Arabidopsis thaliana]

Seq. No.	55722	Seq. ID	OJ000303_21.0419.C10
Gene No.	116738	Strand	+
Start	4874	End	9068
Name	OJ000303_21.0419.C10.o3.gp	Method	AAT/GAP
Start	8219	End	8659

GI	286510	Score	430
Exons	8219..8280, 8380..8526, 8634..8659		
GI Descrip.	5262765/emb CAB45913.1 8.0e-13 (AL080283) putative protein [Arabidopsis thaliana]		

Seq. No.	55723	Seq. ID	OJ000303_21.0419.C11
Gene No.	116739	Strand	+
Start	1544	End	2024
Name	OJ000303_21.0419.C11.o1.gs	Method	GENSCAN
Start	1544	End	1759
GI	none	Score	.84
Exons	1544..1759		

Seq. No.	55723	Seq. ID	OJ000303_21.0419.C11
Gene No.	116739	Strand	+
Start	1544	End	2024
Name	OJ000303_21.0419.C11.o1.gp	Method	AAT/GAP
Start	1570	End	2024
GI	3760791	Score	600
Exons	1570..1661, 1763..2024		

Seq. No.	55723	Seq. ID	OJ000303_21.0419.C11
Gene No.	116740	Strand	+
Start	2765	End	4241
Name	OJ000303_21.0419.C11.o2.gs	Method	GENSCAN
Start	2765	End	4241
GI	none	Score	.99
Exons	2765..2836, 3546..4241		

Seq. No.	55723	Seq. ID	OJ000303_21.0419.C11
Gene No.	116740	Strand	+
Start	2765	End	4241
Name	OJ000303_21.0419.C11.o1.np	Method	AAT/NAP
Start	3585	End	4238
GI	7486002	Score	392
Exons	3585..4238		
GI Descrip.	hypothetical protein F2206.150 - Arabidopsis thaliana gi 4886280 emb CAB43430.1 (AL050300) putative protein [Arabidopsis thaliana]		

Seq. No.	55723	Seq. ID	OJ000303_21.0419.C11
Gene No.	116741	Strand	-
Start	4714	End	5834
Name	OJ000303_21.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	3575	End	4001
GI	none	Score	110
Exons	3575..4000, 3576..3647, 3714..4001		

Seq. No.	55723	Seq. ID	OJ000303_21.0419.C11
Gene No.	116741	Strand	-
Start	4714	End	5834
Name	OJ000303_21.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	3714	End	4144
GI	none	Score	62
Exons	3714..3776, 3780..3965, 3905..3964, 3987..4142, 4025..4144		

Seq. No.	55723	Seq. ID	OJ000303_21.0419.C11
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Gene No. 116741
 Start 4714
 Name OJ000303_21.0419.C11.o1.tc
 Start 3810
 GI none
 Exons 3810..4004, 3987..4142

Strand -
 End 5834
 Method TBLASTX:Cress
 End 4142
 Score 143

Seq. No. 55723
 Gene No. 116741
 Start 4714
 Name OJ000303_21.0419.C11.o2.tm
 Start 4004
 GI none
 Exons 4004..4144, 4005..4214

Seq. ID OJ000303_21.0419.C11
 Strand -
 End 5834
 Method TBLASTX:Maize
 End 4214
 Score 224

Seq. No. 55723
 Gene No. 116741
 Start 4714
 Name OJ000303_21.0419.C11.o3.gs
 Start 4714
 GI none
 Exons 4714..4859, 5795..5834

Seq. ID OJ000303_21.0419.C11
 Strand -
 End 5834
 Method GENSCAN
 End 5834
 Score .75

Seq. No. 55724
 Gene No. 116742
 Start 1
 Name OJ000303_21.0419.C12.o1.np
 Start 1
 GI 7486004
 Exons 1..249

Seq. ID OJ000303_21.0419.C12
 Strand +
 End 255
 Method AAT/NAP
 End 249
 Score 219

GI Descrip. hypothetical protein F2206.170 - Arabidopsis thaliana
 gi|4886282|emb|CAB43434.1| (AL050300) putative protein
 [Arabidopsis thaliana]

Seq. No. 55724
 Gene No. 116742
 Start 1
 Name OJ000303_21.0419.C12.o1.gs
 Start 88
 GI none
 Exons 88..255

Seq. ID OJ000303_21.0419.C12
 Strand +
 End 255
 Method GENSCAN
 End 255
 Score .87

Seq. No. 55725
 Gene No. 116743
 Start 653
 Name OJ000303_21.0419.C13.o1.gs
 Start 653
 GI none
 Exons 653..877

Seq. ID OJ000303_21.0419.C13
 Strand -
 End 877
 Method GENSCAN
 End 877
 Score .56

Seq. No. 55726
 Gene No. 116744
 Start 6
 Name OJ000303_21.0419.C14.o1.np
 Start 6
 GI 6815109
 Exons 6..48, 1186..1354

Seq. ID OJ000303_21.0419.C14
 Strand +
 End 1354
 Method AAT/NAP
 End 1354
 Score 161

GI Descrip. (AP001081) hypothetical protein [Oryza sativa]

Seq. No.	55726	Seq. ID	OJ000303_21.0419.C14
Gene No.	116745	Strand	-
Start	537	End	647
Name	OJ000303_21.0419.C14.ol.gs	Method	GENSCAN
Start	537	End	647
GI	none	Score	.73
Exons	537..647		

Seq. No.	55727	Seq. ID	OJ000303_21.0419.C15
Gene No.	116746	Strand	+
Start	922	End	1189
Name	OJ000303_21.0419.C15.ol.gs	Method	GENSCAN
Start	922	End	1189
GI	none	Score	.56
Exons	922..974, 1108..1189		

Seq. No.	55728	Seq. ID	OJ000303_21.0419.C16
Gene No.	116747	Strand	-
Start	1	End	167
Name	OJ000303_21.0419.C16.ol.gp	Method	AAT/GAP
Start	1	End	167
GI	LIB3434-008-P1-K1-E6	Score	263
Exons	1..167		

GI Descrip. '3880399/emb|CAA95853.1| 9.0e-11 (Z71267) predicted using Genefinder; cDNA EST yk275h2.3 comes from this gene; cDNA EST yk309g11.3 comes from this gene; cDNA EST yk309g11.5 comes from this gene; cDNA EST yk275h2.5 comes from this gene [Caenorhabditis elegans]'

Seq. No.	55728	Seq. ID	OJ000303_21.0419.C16
Gene No.	116748	Strand	-
Start	849	End	1086
Name	OJ000303_21.0419.C16.ol.np	Method	AAT/NAP
Start	849	End	1086
GI	6006885	Score	180
Exons	849..1086		

GI Descrip. (AC008153) hypothetical protein [Arabidopsis thaliana]

Seq. No.	55729	Seq. ID	OJ000303_21.0419.C17
Gene No.	116749	Strand	-
Start	1	End	2199
Name	OJ000303_21.0419.C17.ol.np	Method	AAT/NAP
Start	1	End	2187
GI	6899894	Score	397
Exons	1..24, 549..613, 694..805, 885..965, 1050..1143, 1270..1334, 1437..1495, 1756..1873, 1954..2187		

GI Descrip. (AL138642) serine/threonine-protein kinase-like protein [Arabidopsis thaliana]

Seq. No.	55729	Seq. ID	OJ000303_21.0419.C17
Gene No.	116749	Strand	-
Start	1	End	2199
Name	OJ000303_21.0419.C17.ol.gs	Method	GENSCAN
Start	694	End	2199
GI	none	Score	.71

Exons 694..805, 1050..1143, 1270..1334, 1796..1873, 2065..2199

Seq. No. 55729 Seq. ID OJ000303_21.0419.C17
Gene No. 116750 Strand -
Start 3148 End 8650
Name OJ000303_21.0419.C17.o3.tm Method TBLASTX:Maize
Start 555 End 939
GI none Score 69
Exons 555..617, 556..639, 695..814, 696..809, 882..938, 889..939

Seq. No. 55729 Seq. ID OJ000303_21.0419.C17
Gene No. 116750 Strand -
Start 3148 End 8650
Name OJ000303_21.0419.C17.o2.tc Method TBLASTX:Cress
Start 906 End 1825
GI none Score 83
Exons 906..968, 1056..1151, 1269..1340, 1437..1499, 1754..1825

Seq. No. 55729 Seq. ID OJ000303_21.0419.C17
Gene No. 116750 Strand -
Start 3148 End 8650
Name OJ000303_21.0419.C17.o2.ts Method TBLASTX:Soybean
Start 1086 End 2091
GI none Score 66
Exons 1086..1151, 1443..1499, 1751..1861, 1760..1894, 1966..2091, 1967..2038, 2064..2081

Seq. No. 55729 Seq. ID OJ000303_21.0419.C17
Gene No. 116750 Strand -
Start 3148 End 8650
Name OJ000303_21.0419.C17.o2.tm Method TBLASTX:Maize
Start 1443 End 2166
GI none Score 84
Exons 1443..1499, 1444..1497, 1754..1876, 1754..1873, 1809..1874, 1963..2130, 1964..2122, 2056..2166, 2058..2159

Seq. No. 55729 Seq. ID OJ000303_21.0419.C17
Gene No. 116750 Strand -
Start 3148 End 8650
Name OJ000303_21.0419.C17.o2.gs Method GENSCAN
Start 3148 End 8583
GI none Score .8
Exons 3148..3153, 3182..3322, 3455..3505, 3615..3695, 4087..4182, 4251..4426, 5945..6033, 6186..6274, 7125..7171, 7338..7405, 8022..8123, 8405..8583

Seq. No. 55729 Seq. ID OJ000303_21.0419.C17
Gene No. 116750 Strand -
Start 3148 End 8650
Name OJ000303_21.0419.C17.o2.np Method AAT/NAP
Start 3173 End 8650
GI 6598802 Score 689
Exons 3173..3322, 3452..3505, 3615..3695, 4087..4182, 4251..4426, 5945..6018, 6112..6222, 6533..6618, 6996..7235, 7333..7419, 8071..8223, 8470..8650

GI Descrip. (AF024504) putative protein kinase [Arabidopsis thaliana]

Seq. No.	55729	Seq. ID	OJ000303_21.0419.C17
Gene No.	116750	Strand	-
Start	3148	End	8650
Name	OJ000303_21.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	3185	End	4413
GI	none	Score	66
Exons	3185..3322, 3213..3323, 3455..3505, 3612..3698, 3622..3696, 4081..4182, 4085..4183, 4248..4412, 4264..4413		

Seq. No.	55729	Seq. ID	OJ000303_21.0419.C17
Gene No.	116750	Strand	-
Start	3148	End	8650
Name	OJ000303_21.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	3203	End	4443
GI	none	Score	112
Exons	3203..3322, 3204..3323, 3205..3333, 3453..3512, 3454..3513, 3455..3508, 3612..3740, 3612..3698, 4080..4181, 4081..4182, 4085..4183, 4248..4427, 4249..4428, 4253..4441, 4253..4429, 4267..4443		

Seq. No.	55729	Seq. ID	OJ000303_21.0419.C17
Gene No.	116750	Strand	-
Start	3148	End	8650
Name	OJ000303_21.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	3224	End	4278
GI	none	Score	95
Exons	3224..3322, 3225..3323, 3444..3488, 3451..3489, 3455..3505, 3456..3509, 3612..3698, 3613..3696, 3621..3785, 4050..4181, 4081..4182, 4084..4185, 4086..4184, 4249..4278, 4249..4278		

Seq. No.	55729	Seq. ID	OJ000303_21.0419.C17
Gene No.	116750	Strand	-
Start	3148	End	8650
Name	OJ000303_21.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	3612	End	7383
GI	none	Score	77
Exons	3612..3695, 4081..4182, 4085..4183, 4096..4194, 4248..4427, 4263..4421, 4264..4428, 5946..6020, 7123..7230, 7123..7212, 7124..7243, 7125..7247, 7339..7383, 7340..7378		

Seq. No.	55729	Seq. ID	OJ000303_21.0419.C17
Gene No.	116750	Strand	-
Start	3148	End	8650
Name	OJ000303_21.0419.C17.o2.tw	Method	TBLASTX:Wheat
Start	4281	End	6643
GI	none	Score	171
Exons	4281..4427, 4281..4427, 4282..4428, 4283..4441, 4463..4495, 5939..6010, 5939..6019, 5946..6020, 5947..6021, 6111..6185, 6115..6183, 6204..6230, 6205..6231, 6510..6635, 6511..6603, 6530..6643, 6532..6642		

Seq. No.	55729	Seq. ID	OJ000303_21.0419.C17
Gene No.	116750	Strand	-
Start	3148	End	8650
Name	OJ000303_21.0419.C17.o5.tm	Method	TBLASTX:Maize
Start	5940	End	6582
GI	none	Score	74

Exons 5940..6017, 5946..6029, 5947..6018, 6111..6185, 6111..6185, 6112..6186, 6532..6582, 6533..6580

Seq. No. 55729 Seq. ID OJ000303_21.0419.C17
Gene No. 116750 Strand -
Start 3148 End 8650
Name OJ000303_21.0419.C17.o4.tm Method TBLASTX:Maize
Start 7117 End 7407
GI none Score 126
Exons 7117..7239, 7122..7238, 7122..7292, 7124..7261, 7333..7401, 7333..7407

Seq. No. 55729 Seq. ID OJ000303_21.0419.C17
Gene No. 116750 Strand -
Start 3148 End 8650
Name OJ000303_21.0419.C17.o1.gp Method AAT/GAP
Start 8297 End 8381
GI LIB3477-003-P1-K1-E9 Score 112
Exons 8297..8381
GI Descrip. '2498586/sp|Q40638|MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No. 55730 Seq. ID OJ000303_21.0419.C18
Gene No. 116751 Strand -
Start 2174 End 3782
Name OJ000303_21.0419.C18.o1.gs Method GENSCAN
Start 2174 End 3782
GI none Score .44
Exons 2174..2309, 2546..2612, 2796..2937, 3555..3782

Seq. No. 55731 Seq. ID OJ000303_21.0419.C20
Gene No. 116752 Strand -
Start 1353 End 2783
Name OJ000303_21.0419.C20.o2.gs Method GENSCAN
Start 1353 End 2618
GI none Score .84
Exons 1353..1978, 1983..2618

Seq. No. 55731 Seq. ID OJ000303_21.0419.C20
Gene No. 116752 Strand -
Start 1353 End 2783
Name OJ000303_21.0419.C20.o1.np Method AAT/NAP
Start 1362 End 2783
GI 7486000 Score 722
Exons 1362..1529, 1557..2300, 2331..2783
GI Descrip. hypothetical protein F2206.120 - Arabidopsis thaliana gi|4886277|emb|CAB43423.1| (AL050300) putative protein [Arabidopsis thaliana]

Seq. No. 55731 Seq. ID OJ000303_21.0419.C20
Gene No. 116752 Strand -
Start 1353 End 2783
Name OJ000303_21.0419.C20.o3.tm Method TBLASTX:Maize
Start 1647 End 2023
GI none Score 115
Exons 1647..1814, 1660..1815, 1722..1823, 1809..1880, 1842..1913,

1843..1920, 1957..1977, 1982..2023

Seq. No.	55731	Seq. ID	OJ000303_21.0419.C20
Gene No.	116752	Strand	-
Start	1353	End	2783
Name	OJ000303_21.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	2014	End	2280
GI	none	Score	205
Exons	2014..2184, 2015..2185, 2179..2280, 2180..2278		

Seq. No.	55731	Seq. ID	OJ000303_21.0419.C20
Gene No.	116752	Strand	-
Start	1353	End	2783
Name	OJ000303_21.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	2023	End	2446
GI	none	Score	337
Exons	2023..2277, 2024..2278, 2329..2445, 2333..2446		

Seq. No.	55731	Seq. ID	OJ000303_21.0419.C20
Gene No.	116752	Strand	-
Start	1353	End	2783
Name	OJ000303_21.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	2185	End	2566
GI	none	Score	69
Exons	2185..2274, 2338..2451, 2437..2565, 2438..2566		

Seq. No.	55731	Seq. ID	OJ000303_21.0419.C20
Gene No.	116752	Strand	-
Start	1353	End	2783
Name	OJ000303_21.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	2474	End	2766
GI	none	Score	120
Exons	2474..2581, 2476..2619, 2725..2766		

Seq. No.	55732	Seq. ID	OJ000303_21.0419.C21
Gene No.	116753	Strand	+
Start	2071	End	2479
Name	OJ000303_21.0419.C21.o1.gp	Method	AAT/GAP
Start	2071	End	2464
GI	24374_1.R1084	Score	585
Exons	2071..2235, 2314..2464		
GI Descrip.	'4895185/gb AAD32772.1 AC007661_9 1.0e-39 (AC007661) unknown protein [Arabidopsis thaliana]'		

Seq. No.	55732	Seq. ID	OJ000303_21.0419.C21
Gene No.	116753	Strand	+
Start	2071	End	2479
Name	OJ000303_21.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	2112	End	2467
GI	none	Score	34
Exons	2112..2129, 2159..2215, 2161..2226, 2182..2226, 2332..2463, 2342..2467		

Seq. No.	55732	Seq. ID	OJ000303_21.0419.C21
Gene No.	116753	Strand	+
Start	2071	End	2479
Name	OJ000303_21.0419.C21.o1.gs	Method	GENSCAN

Start	2120	End	2464
GI	none	Score	.98
Exons	2120..2464		

Seq. No.	55732	Seq. ID	OJ000303_21.0419.C21
Gene No.	116753	Strand	+
Start	2071	End	2479
Name	OJ000303_21.0419.C21.o1.np	Method	AAT/NAP
Start	2135	End	2479
GI	4895185	Score	172
Exons	2135..2235, 2314..2479		
GI Descrip.	(AC007661) unknown protein [Arabidopsis thaliana]		

Seq. No.	55733	Seq. ID	OJ000303_21.0419.C22
Gene No.	116754	Strand	+
Start	1	End	1719
Name	OJ000303_21.0419.C22.o1.gp	Method	AAT/GAP
Start	1	End	266
GI	24374_1.R1084	Score	258
Exons	1..39, 159..266		
GI Descrip.	'4895185/gb AAD32772.1 AC007661_9 1.0e-39 (AC007661) unknown protein [Arabidopsis thaliana]'		

Seq. No.	55733	Seq. ID	OJ000303_21.0419.C22
Gene No.	116754	Strand	+
Start	1	End	1719
Name	OJ000303_21.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	1508
GI	4895185	Score	570
Exons	1..39, 159..390, 604..724, 880..1066, 1160..1273, 1386..1508		
GI Descrip.	(AC007661) unknown protein [Arabidopsis thaliana]		

Seq. No.	55733	Seq. ID	OJ000303_21.0419.C22
Gene No.	116754	Strand	+
Start	1	End	1719
Name	OJ000303_21.0419.C22.o1.gs	Method	GENSCAN
Start	33	End	1511
GI	none	Score	.96
Exons	33..39, 159..287, 607..724, 880..1066, 1160..1273, 1386..1511		

Seq. No.	55733	Seq. ID	OJ000303_21.0419.C22
Gene No.	116754	Strand	+
Start	1	End	1719
Name	OJ000303_21.0419.C22.o2.gp	Method	AAT/GAP
Start	646	End	1719
GI	25493_1.R1084	Score	1347
Exons	646..724, 880..1066, 1160..1273, 1386..1719		
GI Descrip.	'4895185/gb AAD32772.1 AC007661_9 2.0e-35 (AC007661) unknown protein [Arabidopsis thaliana]'		

Seq. No.	55733	Seq. ID	OJ000303_21.0419.C22
Gene No.	116755	Strand	+
Start	3993	End	4367
Name	OJ000303_21.0419.C22.o3.gp	Method	AAT/GAP
Start	3993	End	4367
GI	63352_1.R1084	Score	617
Exons	3993..4281, 4311..4367		

GI Descrip. '4886273/emb|CAB43415.1| 6.0e-11 (AL050300) hypothetical protein [Arabidopsis thaliana]'

Seq. No.	55733	Seq. ID	OJ000303_21.0419.C22
Gene No.	116756	Strand	-
Start	3064	End	4748
Name	OJ000303_21.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	2	End	1668
GI	none	Score	63
Exons	2..40, 3..41, 156..281, 157..285, 158..286, 569..628, 576..722, 607..666, 870..1064, 878..1066, 878..1072, 1157..1291, 1157..1270, 1158..1277, 1159..1290, 1385..1513, 1466..1504, 1560..1664, 1561..1668		

Seq. No.	55733	Seq. ID	OJ000303_21.0419.C22
Gene No.	116756	Strand	-
Start	3064	End	4748
Name	OJ000303_21.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	1159	End	1531
GI	none	Score	141
Exons	1159..1290, 1160..1291, 1385..1504, 1385..1531		

Seq. No.	55733	Seq. ID	OJ000303_21.0419.C22
Gene No.	116756	Strand	-
Start	3064	End	4748
Name	OJ000303_21.0419.C22.o2.np	Method	AAT/NAP
Start	3064	End	4728
GI	4510364	Score	165
Exons	3064..3286, 4047..4421, 4536..4728		
GI Descrip.	(AC007017) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55733	Seq. ID	OJ000303_21.0419.C22
Gene No.	116756	Strand	-
Start	3064	End	4748
Name	OJ000303_21.0419.C22.o2.gs	Method	GENSCAN
Start	4013	End	4748
GI	none	Score	.76
Exons	4013..4041, 4160..4748		

Seq. No.	55734	Seq. ID	OJ000303_21.0419.C23
Gene No.	116757	Strand	-
Start	360	End	788
Name	OJ000303_21.0419.C23.o1.gs	Method	GENSCAN
Start	360	End	788
GI	none	Score	.73
Exons	360..788		

Seq. No.	55735	Seq. ID	OJ000303_21.0419.C25
Gene No.	116758	Strand	+
Start	347	End	605
Name	OJ000303_21.0419.C25.o1.gs	Method	GENSCAN
Start	347	End	605
GI	none	Score	.68
Exons	347..396, 525..605		

Seq. No.	55736	Seq. ID	OJ000303_21.0419.C27
Gene No.	116759	Strand	-

Start	825	End	831
Name	OJ000303_21.0419.C27.o1.gs	Method	GENSCAN
Start	825	End	831
GI	none	Score	.51
Exons	825..831		

Seq. No.	55737	Seq. ID	OJ000303_21.0419.C28
Gene No.	116760	Strand	+
Start	1	End	302
Name	OJ000303_21.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	299
GI	7489482	Score	501
Exons	1..299		
GI Descrip.	hin1 protein homolog - rice gi 2801538 gb AAB97367.1 (AF039532) harpin induced gene 1 homolog [Oryza sativa]		

Seq. No.	55737	Seq. ID	OJ000303_21.0419.C28
Gene No.	116760	Strand	+
Start	1	End	302
Name	OJ000303_21.0419.C28.o1.gs	Method	GENSCAN
Start	78	End	302
GI	none	Score	.96
Exons	78..302		

Seq. No.	55737	Seq. ID	OJ000303_21.0419.C28
Gene No.	116761	Strand	-
Start	1	End	641
Name	OJ000303_21.0419.C28.o1.gp	Method	AAT/GAP
Start	1	End	641
GI	821_1.R1084	Score	1247
Exons	1..641		
GI Descrip.	'2801538 1.0e-96 (AF039532) harpin induced gene 1 homolog [Oryza sativa]'		

Seq. No.	55737	Seq. ID	OJ000303_21.0419.C28
Gene No.	116761	Strand	-
Start	1	End	641
Name	OJ000303_21.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	2	End	399
GI	none	Score	319
Exons	2..247, 3..248, 251..304, 251..352, 252..335, 352..399		

Seq. No.	55738	Seq. ID	OJ000303_22.0419.C2
Gene No.	116762	Strand	+
Start	1	End	9368
Name	OJ000303_22.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	501
GI	2494119	Score	77
Exons	1..107, 150..501		
GI Descrip.	(AC002376) EST gb T04104 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	55738	Seq. ID	OJ000303_22.0419.C2
Gene No.	116762	Strand	+
Start	1	End	9368
Name	OJ000303_22.0419.C2.o3.np	Method	AAT/NAP
Start	1	End	9368

GI 5257279 Score 156
 Exons 1..21, 9108..9368
 GI Descrip. (AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]

Seq. No.	55738	Seq. ID	OJ000303_22.0419.C2
Gene No.	116762	Strand	+
Start	1	End	9368
Name	OJ000303_22.0419.C2.o1.gp	Method	AAT/GAP
Start	169	End	412
GI	2797196	Score	449
Exons	169..412		

Seq. No.	55738	Seq. ID	OJ000303_22.0419.C2
Gene No.	116762	Strand	+
Start	1	End	9368
Name	OJ000303_22.0419.C2.o2.gs	Method	GENSCAN
Start	4680	End	5120
GI	none	Score	.83
Exons	4680..5120		

Seq. No.	55738	Seq. ID	OJ000303_22.0419.C2
Gene No.	116763	Strand	+
Start	9290	End	13547
Name	OJ000303_22.0419.C2.o4.gs	Method	GENSCAN
Start	9290	End	13547
GI	none	Score	.84
Exons	9290..9367, 11586..11612, 11953..12028, 12530..12898, 13164..13238, 13273..13547		

Seq. No.	55738	Seq. ID	OJ000303_22.0419.C2
Gene No.	116763	Strand	+
Start	9290	End	13547
Name	OJ000303_22.0419.C2.o2.gp	Method	AAT/GAP
Start	10842	End	11363
GI	LIB3434-038-P1-K1-F1	Score	780
Exons	10842..11363		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	55738	Seq. ID	OJ000303_22.0419.C2
Gene No.	116764	Strand	-
Start	3701	End	4156
Name	OJ000303_22.0419.C2.o2.np	Method	AAT/NAP
Start	3701	End	4156
GI	7523502	Score	125
Exons	3701..3773, 4063..4156		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	55738	Seq. ID	OJ000303_22.0419.C2
Gene No.	116765	Strand	-
Start	6949	End	8695
Name	OJ000303_22.0419.C2.o3.gs	Method	GENSCAN
Start	6949	End	8695
GI	none	Score	.46
Exons	6949..7001, 7160..7329, 8586..8695		

Seq. No.	55739	Seq. ID	OJ000303_22.0419.C4
Gene No.	116766	Strand	+
Start	751	End	3953
Name	OJ000303_22.0419.C4.ol.gs	Method	GENSCAN
Start	751	End	3945
GI	none	Score	.55
Exons	751..860, 1449..1605, 1715..1767, 2521..2596, 2629..2809, 2977..3334, 3416..3945		

Seq. No.	55739	Seq. ID	OJ000303_22.0419.C4
Gene No.	116766	Strand	+
Start	751	End	3953
Name	OJ000303_22.0419.C4.ol.np	Method	AAT/NAP
Start	2543	End	3953
GI	3786007	Score	903
Exons	2543..2809, 2977..3334, 3416..3953		
GI Descrip.	(AC005499) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55739	Seq. ID	OJ000303_22.0419.C4
Gene No.	116766	Strand	+
Start	751	End	3953
Name	OJ000303_22.0419.C4.ol.ts	Method	TBLASTX:Soybean
Start	2649	End	3949
GI	none	Score	37
Exons	2649..2690, 2697..2801, 2987..3199, 3236..3334, 3413..3550, 3638..3862, 3643..3816, 3857..3949		

Seq. No.	55739	Seq. ID	OJ000303_22.0419.C4
Gene No.	116766	Strand	+
Start	751	End	3953
Name	OJ000303_22.0419.C4.ol.tc	Method	TBLASTX:Cress
Start	2975	End	3862
GI	none	Score	250
Exons	2975..3334, 3431..3535, 3620..3862, 3646..3804		

Seq. No.	55739	Seq. ID	OJ000303_22.0419.C4
Gene No.	116766	Strand	+
Start	751	End	3953
Name	OJ000303_22.0419.C4.ol.tm	Method	TBLASTX:Maize
Start	2998	End	3949
GI	none	Score	101
Exons	2998..3045, 3043..3204, 3045..3203, 3046..3204, 3047..3229, 3047..3220, 3239..3334, 3268..3336, 3413..3532, 3415..3522, 3643..3840, 3647..3949, 3746..3937		

Seq. No.	55739	Seq. ID	OJ000303_22.0419.C4
Gene No.	116766	Strand	+
Start	751	End	3953
Name	OJ000303_22.0419.C4.ol.gp	Method	AAT/GAP
Start	3088	End	3626
GI	2312480	Score	848
Exons	3088..3334, 3416..3626		
GI Descrip.	3786007 2.0e-32 (AC005499) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55739	Seq. ID	OJ000303_22.0419.C4
Gene No.	116766	Strand	+

Start	751	End	3953
Name	OJ000303_22.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	3653	End	3949
GI	none	Score	151
Exons	3653..3817, 3673..3759, 3866..3949		

Seq. No.	55740	Seq. ID	OJ000303_22.0419.C5
Gene No.	116767	Strand	+
Start	386	End	825
Name	OJ000303_22.0419.C5.o1.gs	Method	GENSCAN
Start	386	End	825
GI	none	Score	.65
Exons	386..514, 682..825		

Seq. No.	55740	Seq. ID	OJ000303_22.0419.C5
Gene No.	116768	Strand	+
Start	14884	End	15730
Name	OJ000303_22.0419.C5.o3.gs	Method	GENSCAN
Start	14884	End	15730
GI	none	Score	.51
Exons	14884..15098, 15130..15225, 15634..15730		

Seq. No.	55740	Seq. ID	OJ000303_22.0419.C5
Gene No.	116769	Strand	-
Start	1880	End	10750
Name	OJ000303_22.0419.C5.o2.gs	Method	GENSCAN
Start	1880	End	10750
GI	none	Score	.4
Exons	1880..2246, 2293..2369, 3100..3584, 3809..4589, 4697..4891, 5506..6308, 6334..7236, 7250..7372, 7664..7779, 7959..8103, 8779..8932, 9519..9864, 9985..10087, 10119..10222, 10617..10750		

Seq. No.	55740	Seq. ID	OJ000303_22.0419.C5
Gene No.	116770	Strand	-
Start	16974	End	17598
Name	OJ000303_22.0419.C5.o3.tm	Method	TBLASTX:Maize
Start	5113	End	5580
GI	none	Score	141
Exons	5113..5265, 5335..5580		

Seq. No.	55740	Seq. ID	OJ000303_22.0419.C5
Gene No.	116770	Strand	-
Start	16974	End	17598
Name	OJ000303_22.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	6145	End	7063
GI	none	Score	116
Exons	6145..6285, 6329..6583, 6638..7063, 6657..6881, 6956..7039		

Seq. No.	55740	Seq. ID	OJ000303_22.0419.C5
Gene No.	116770	Strand	-
Start	16974	End	17598
Name	OJ000303_22.0419.C5.o2.np	Method	AAT/NAP
Start	16776	End	17598
GI	3482932	Score	484
Exons	16776..16818, 16997..17429, 17536..17598		
GI Descrip.	(AC003970) Hypothetical protein [Arabidopsis thaliana]		

Seq. No. 55740
 Gene No. 116770
 Start 16974
 Name OJ000303_22.0419.C5.o4.gs
 Start 16974
 GI none
 Exons 16974..17429, 17536..17595

Seq. ID OJ000303_22.0419.C5
 Strand -
 End 17598
 Method GENSCAN
 End 17595
 Score .98

Seq. No. 55740
 Gene No. 116770
 Start 16974
 Name OJ000303_22.0419.C5.o1.tw
 Start 17014
 GI none
 Exons 17014..17304, 17019..17303

Seq. ID OJ000303_22.0419.C5
 Strand -
 End 17598
 Method TBLASTX:Wheat
 End 17304
 Score 127

Seq. No. 55740
 Gene No. 116770
 Start 16974
 Name OJ000303_22.0419.C5.o1.tc
 Start 17016
 GI none
 Exons 17016..17306, 17025..17330, 17035..17310

Seq. ID OJ000303_22.0419.C5
 Strand -
 End 17598
 Method TBLASTX:Cress
 End 17330
 Score 143

Seq. No. 55740
 Gene No. 116770
 Start 16974
 Name OJ000303_22.0419.C5.o1.ts
 Start 17101
 GI none
 Exons 17101..17319, 17103..17330, 17106..17297, 17110..17316, 17174..17329

Seq. ID OJ000303_22.0419.C5
 Strand -
 End 17598
 Method TBLASTX:Soybean
 End 17330
 Score 118

Seq. No. 55740
 Gene No. 116770
 Start 16974
 Name OJ000303_22.0419.C5.o1.tm
 Start 17112
 GI none
 Exons 17112..17423, 17113..17316

Seq. ID OJ000303_22.0419.C5
 Strand -
 End 17598
 Method TBLASTX:Maize
 End 17423
 Score 323

Seq. No. 55741
 Gene No. 116771
 Start 520
 Name OJ000303_22.0419.C6.o1.gs
 Start 520
 GI none
 Exons 520..623

Seq. ID OJ000303_22.0419.C6
 Strand +
 End 623
 Method GENSCAN
 End 623
 Score .57

Seq. No. 55741
 Gene No. 116772
 Start 1901
 Name OJ000303_22.0419.C6.o2.gs
 Start 1901
 GI none
 Exons 1901..2257

Seq. ID OJ000303_22.0419.C6
 Strand -
 End 2257
 Method GENSCAN
 End 2257
 Score .87

Seq. No.	55742	Seq. ID	OJ000303_22.0419.C8
Gene No.	116773	Strand	+
Start	1	End	631
Name	OJ000303_22.0419.C8.ol.np	Method	AAT/NAP
Start	1	End	631
GI	7340868	Score	61
Exons	1..20, 519..631		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	55742	Seq. ID	OJ000303_22.0419.C8
Gene No.	116774	Strand	+
Start	1134	End	1355
Name	OJ000303_22.0419.C8.ol.gs	Method	GENSCAN
Start	1134	End	1355
GI	none	Score	.48
Exons	1134..1355		

Seq. No.	55743	Seq. ID	OJ000303_22.0419.C9
Gene No.	116775	Strand	-
Start	494	End	4575
Name	OJ000303_22.0419.C9.ol.gp	Method	AAT/GAP
Start	335	End	975
GI	4715163	Score	896
Exons	335..630, 787..975		
GI Descrip.	6002631/gb AAF00071.1 AF093604_1 1.0e-23 (AF093604) apyrase [Arabidopsis thaliana]		

Seq. No.	55743	Seq. ID	OJ000303_22.0419.C9
Gene No.	116775	Strand	-
Start	494	End	4575
Name	OJ000303_22.0419.C9.ol.np	Method	AAT/NAP
Start	491	End	3268
GI	1709358	Score	829
Exons	491..630, 787..970, 1182..1395, 1540..1631, 1910..2208, 2341..2397, 2640..2768, 3035..3268		
GI Descrip.	NUCLEOSIDE-TRIPHOSPHATASE (NUCLEOSIDE TRIPHOSPHATE PHOSPHOHYDROLASE) (NTPASE) gi 629638 pir S48859 nucleoside triphosphatase - garden pea gi 2129890 pir S65147 nucleoside triphosphatase precursor, chromatin-associated - garden pea gi 563612 emb CAA83655 (Z32743) nucleoside triphosphatase [Pisum sativum] gi 4519173 dbj BAA75506.1 (AB022319) apyrase [Pisum sativum]		

Seq. No.	55743	Seq. ID	OJ000303_22.0419.C9
Gene No.	116775	Strand	-
Start	494	End	4575
Name	OJ000303_22.0419.C9.ol.gs	Method	GENSCAN
Start	494	End	4575
GI	none	Score	.74
Exons	494..630, 787..970, 1298..1395, 1540..1631, 1910..2208, 2341..2397, 2640..2768, 3035..3283, 4038..4242, 4271..4575		

Seq. No.	55743	Seq. ID	OJ000303_22.0419.C9
Gene No.	116775	Strand	-
Start	494	End	4575
Name	OJ000303_22.0419.C9.ol.ts	Method	TBLASTX:Soybean
Start	503	End	3146

GI	none	Score	187
Exons	503..631, 785..838, 839..976, 1191..1235, 1247..1396, 1535..1633, 1912..2220, 1916..2209, 2335..2397, 2625..2768, 2641..2763, 3035..3145, 3096..3146		

Seq. No.	55743	Seq. ID	OJ000303_22.0419.C9
Gene No.	116775	Strand	-
Start	494	End	4575
Name	OJ000303_22.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	506	End	2728
GI	none	Score	123
Exons	506..631, 510..632, 785..847, 786..863, 845..973, 846..971, 1179..1229, 1230..1391, 1247..1396, 1278..1397, 1538..1579, 1539..1580, 1586..1633, 1590..1634, 1907..2029, 1911..2195, 1912..2220, 1919..2209, 2026..2214, 2335..2397, 2339..2398, 2625..2723, 2641..2724, 2681..2728		

Seq. No.	55743	Seq. ID	OJ000303_22.0419.C9
Gene No.	116775	Strand	-
Start	494	End	4575
Name	OJ000303_22.0419.C9.o2.gp	Method	AAT/GAP
Start	1000	End	3268
GI	29619_1.R1084	Score	1493
Exons	1000..1395, 1540..1631, 2341..2397, 2640..2768, 3035..3268		
GI Descrip.	'5257279/dbj BAA81778.1 0.0e+00 (AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]'		

Seq. No.	55743	Seq. ID	OJ000303_22.0419.C9
Gene No.	116775	Strand	-
Start	494	End	4575
Name	OJ000303_22.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	2347	End	3248
GI	none	Score	54
Exons	2347..2397, 2348..2398, 2625..2768, 2639..2770, 2639..2770, 2641..2790, 3033..3248, 3038..3199		

Seq. No.	55744	Seq. ID	OJ000303_22.0419.C10
Gene No.	116776	Strand	+
Start	157	End	5001
Name	OJ000303_22.0419.C10.o1.gs	Method	GENSCAN
Start	157	End	4511
GI	none	Score	.4
Exons	157..384, 952..1036, 2702..2949, 3017..3696, 3833..3924, 4358..4511		

Seq. No.	55744	Seq. ID	OJ000303_22.0419.C10
Gene No.	116776	Strand	+
Start	157	End	5001
Name	OJ000303_22.0419.C10.o1.np	Method	AAT/NAP
Start	2732	End	5001
GI	4678924	Score	248
Exons	2732..2774, 3271..3411, 3529..3717, 4964..5001		
GI Descrip.	(AL049711) putative protein [Arabidopsis thaliana]		

Seq. No.	55744	Seq. ID	OJ000303_22.0419.C10
Gene No.	116776	Strand	+

Start	157	End	5001
Name	OJ000303_22.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	2766	End	2982
GI	none	Score	198
Exons	2766..2981, 2767..2982		

Seq. No.	55744	Seq. ID	OJ000303_22.0419.C10
Gene No.	116776	Strand	+
Start	157	End	5001
Name	OJ000303_22.0419.C10.o2.np	Method	AAT/NAP
Start	3296	End	5001
GI	4678924	Score	251
Exons	3296..3411, 3529..3717, 4964..5001		
GI Descrip.	(AL049711) putative protein [Arabidopsis thaliana]		

Seq. No.	55744	Seq. ID	OJ000303_22.0419.C10
Gene No.	116776	Strand	+
Start	157	End	5001
Name	OJ000303_22.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	3299	End	4253
GI	none	Score	115
Exons	3299..3409, 3307..3411, 3496..3708, 3527..3703, 3694..3726, 3849..3926, 4001..4177, 4003..4155, 4013..4159, 4209..4253		

Seq. No.	55744	Seq. ID	OJ000303_22.0419.C10
Gene No.	116776	Strand	+
Start	157	End	5001
Name	OJ000303_22.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	3332	End	3708
GI	none	Score	95
Exons	3332..3409, 3346..3429, 3526..3708, 3527..3703		

Seq. No.	55744	Seq. ID	OJ000303_22.0419.C10
Gene No.	116776	Strand	+
Start	157	End	5001
Name	OJ000303_22.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	3338	End	3708
GI	none	Score	90
Exons	3338..3409, 3346..3411, 3526..3708, 3527..3703		

Seq. No.	55745	Seq. ID	OJ000303_22.0419.C11
Gene No.	116777	Strand	-
Start	219	End	1001
Name	OJ000303_22.0419.C11.o1.np	Method	AAT/NAP
Start	219	End	964
GI	416649	Score	460
Exons	219..575, 647..964		
GI Descrip.	PROBABLE GLUTATHIONE S-TRANSFERASE (AUXIN-INDUCED PROTEIN PGNT1/PCNT110) gi 100303 pir S16267 auxin-induced protein (clones pGNT1 and pCNT110) - common tobacco gi 19789 emb CAA39709.1 (X56268) auxin-induced protein [Nicotiana tabacum] gi 19795 emb CAA39705.1 (X56264) auxin-induced protein [Nicotiana tabacum]		

Seq. No.	55745	Seq. ID	OJ000303_22.0419.C11
Gene No.	116777	Strand	-
Start	219	End	1001

Name	OJ000303_22.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	246	End	961
GI	none	Score	89
Exons	246..557, 301..468, 647..715, 728..961, 782..844		651..716, 664..735, 664..720,

Seq. No.	55745	Seq. ID	OJ000303_22.0419.C11
Gene No.	116777	Strand	-
Start	219	End	1001
Name	OJ000303_22.0419.C11.o1.gs	Method	GENSCAN
Start	268	End	910
GI	none	Score	.88
Exons	268..581, 650..910		

Seq. No.	55745	Seq. ID	OJ000303_22.0419.C11
Gene No.	116777	Strand	-
Start	219	End	1001
Name	OJ000303_22.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	279	End	964
GI	none	Score	78
Exons	279..545, 662..715, 728..892, 728..964		

Seq. No.	55745	Seq. ID	OJ000303_22.0419.C11
Gene No.	116777	Strand	-
Start	219	End	1001
Name	OJ000303_22.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	645	End	961
GI	none	Score	51
Exons	645..710, 650..721, 724..828, 729..953, 731..961, 731..955		

Seq. No.	55745	Seq. ID	OJ000303_22.0419.C11
Gene No.	116777	Strand	-
Start	219	End	1001
Name	OJ000303_22.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	662	End	1001
GI	none	Score	141
Exons	662..967, 668..895, 744..974, 897..1001		

Seq. No.	55746	Seq. ID	OJ000303_22.0419.C12
Gene No.	116778	Strand	-
Start	1	End	1973
Name	OJ000303_22.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	1973
GI	6223650	Score	488
Exons	1..171, 1273..1467, 1513..1661, 1778..1973		
GI Descrip.	(AC011698) NAM-like protein (no apical meristem) [Arabidopsis thaliana]		

Seq. No.	55746	Seq. ID	OJ000303_22.0419.C12
Gene No.	116778	Strand	-
Start	1	End	1973
Name	OJ000303_22.0419.C12.o1.gs	Method	GENSCAN
Start	667	End	1973
GI	none	Score	.79
Exons	667..1661, 1778..1973		

Seq. No.	55746	Seq. ID	OJ000303_22.0419.C12
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Gene No.	116778	Strand	-
Start	1	End	1973
Name	OJ000303_22.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	1288	End	1931
GI	none	Score	57
Exons	1288..1332, 1289..1330, 1384..1467, 1388..1468, 1510..1659, 1511..1660, 1526..1660, 1599..1664, 1603..1662, 1764..1931, 1773..1931		

Seq. No.	55746	Seq. ID	OJ000303_22.0419.C12
Gene No.	116778	Strand	-
Start	1	End	1973
Name	OJ000303_22.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	1291	End	1648
GI	none	Score	83
Exons	1291..1329, 1384..1464, 1388..1465, 1531..1647, 1538..1648		

Seq. No.	55746	Seq. ID	OJ000303_22.0419.C12
Gene No.	116778	Strand	-
Start	1	End	1973
Name	OJ000303_22.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	1297	End	1923
GI	none	Score	45
Exons	1297..1332, 1301..1330, 1384..1485, 1388..1468, 1526..1669, 1528..1662, 1529..1663, 1764..1922, 1774..1920, 1780..1923		

Seq. No.	55746	Seq. ID	OJ000303_22.0419.C12
Gene No.	116778	Strand	-
Start	1	End	1973
Name	OJ000303_22.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	1297	End	1940
GI	none	Score	95
Exons	1297..1332, 1384..1473, 1388..1474, 1510..1659, 1526..1657, 1526..1660, 1764..1940, 1780..1923		

Seq. No.	55747	Seq. ID	OJ000303_22.0419.C14
Gene No.	116779	Strand	-
Start	1	End	1259
Name	OJ000303_22.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	1259
GI	7021736	Score	547
Exons	1..32, 336..378, 644..951, 1079..1259		
GI Descrip.	(AC024081) putative jasmonic acid regulatory protein [Arabidopsis thaliana]		

Seq. No.	55747	Seq. ID	OJ000303_22.0419.C14
Gene No.	116779	Strand	-
Start	1	End	1259
Name	OJ000303_22.0419.C14.o1.gs	Method	GENSCAN
Start	167	End	1250
GI	none	Score	.76
Exons	167..378, 644..951, 1079..1250		

Seq. No.	55747	Seq. ID	OJ000303_22.0419.C14
Gene No.	116780	Strand	-
Start	2982	End	3681
Name	OJ000303_22.0419.C14.o3.gs	Method	GENSCAN

Start 2982
GI none
Exons 2982..3144, 3497..3681

End 3681
Score .7

Seq. No. 55747
Gene No. 116781
Start 4280
Name OJ000303_22.0419.C14.o1.tc
Start 337
GI none
Exons 337..381, 710..964, 711..740, 780..965, 1075..1227, 1080..1226

Seq. ID OJ000303_22.0419.C14
Strand -
End 9568
Method TBLASTX:Cress
End 1227
Score 49

Seq. No. 55747
Gene No. 116781
Start 4280
Name OJ000303_22.0419.C14.o1.tm
Start 710
GI none
Exons 710..808, 712..789, 821..964, 828..965, 1080..1244, 1083..1220, 1090..1266

Seq. ID OJ000303_22.0419.C14
Strand -
End 9568
Method TBLASTX:Maize
End 1266
Score 71

Seq. No. 55747
Gene No. 116781
Start 4280
Name OJ000303_22.0419.C14.o1.ts
Start 710
GI none
Exons 710..802, 711..803, 812..964, 822..965, 1075..1260, 1080..1220

Seq. ID OJ000303_22.0419.C14
Strand -
End 9568
Method TBLASTX:Soybean
End 1260
Score 62

Seq. No. 55747
Gene No. 116781
Start 4280
Name OJ000303_22.0419.C14.o1.tw
Start 710
GI none
Exons 710..796, 714..794, 718..795, 790..855, 818..943, 828..944

Seq. ID OJ000303_22.0419.C14
Strand -
End 9568
Method TBLASTX:Wheat
End 944
Score 52

Seq. No. 55747
Gene No. 116781
Start 4280
Name OJ000303_22.0419.C14.o2.tw
Start 1080
GI none
Exons 1080..1220, 1081..1254, 1087..1260, 1166..1261, 3336..3410

Seq. ID OJ000303_22.0419.C14
Strand -
End 9568
Method TBLASTX:Wheat
End 3410
Score 132

Seq. No. 55747
Gene No. 116781
Start 4280
Name OJ000303_22.0419.C14.o4.gs
Start 4280
GI none
Exons 4280..4412, 6002..6027, 6076..6129, 7256..7419, 7884..7975, 8224..8403, 8603..8659

Seq. ID OJ000303_22.0419.C14
Strand -
End 9568
Method GENSCAN
End 8659
Score .67

Seq. No. 55747
Gene No. 116781
Start 4280

Seq. ID OJ000303_22.0419.C14
Strand -
End 9568

Name	OJ000303_22.0419.C14.o2.np	Method	AAT/NAP
Start	5288	End	9565
GI	6683666	Score	571
Exons	5288..5315, 7252..7469, 7884..7975, 8224..8522, 8603..8659, 9437..9565		

GI Descrip. (AB027616) apyrase. [Pisum sativum]

Seq. No.	55747	Seq. ID	OJ000303_22.0419.C14
Gene No.	116781	Strand	-
Start	4280	End	9568
Name	OJ000303_22.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	7262	End	9521
GI	none	Score	127
Exons	7262..7429, 7262..7429, 7429..7470, 7430..7501, 7864..7923, 7915..7977, 8204..8509, 8206..8508, 8226..8522, 8239..8523, 8598..8660, 8598..8657, 8600..8659, 9437..9520, 9438..9521		

Seq. No.	55747	Seq. ID	OJ000303_22.0419.C14
Gene No.	116781	Strand	-
Start	4280	End	9568
Name	OJ000303_22.0419.C14.o2.ts	Method	TBLASTX:Soybean
Start	7265	End	9568
GI	none	Score	66
Exons	7265..7420, 7879..7977, 8221..8463, 8226..8378, 8226..8522, 8230..8523, 8600..8659, 9437..9568		

Seq. No.	55748	Seq. ID	OJ000303_22.0419.C15
Gene No.	116782	Strand	+
Start	224	End	1213
Name	OJ000303_22.0419.C15.o1.gs	Method	GENSCAN
Start	224	End	1213
GI	none	Score	.96
Exons	224..397, 492..602, 686..758, 853..951, 1031..1213		

Seq. No.	55748	Seq. ID	OJ000303_22.0419.C15
Gene No.	116783	Strand	+
Start	1386	End	1596
Name	OJ000303_22.0419.C15.o1.gp	Method	AAT/GAP
Start	1386	End	1596
GI	LIB3477-003-P1-K1-E9	Score	127
Exons	1386..1461, 1560..1596		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	55748	Seq. ID	OJ000303_22.0419.C15
Gene No.	116784	Strand	+
Start	3121	End	7923
Name	OJ000303_22.0419.C15.o2.gs	Method	GENSCAN
Start	3121	End	7895
GI	none	Score	.46
Exons	3121..3183, 3421..3627, 3684..4011, 4130..4279, 4303..4500, 4654..5509, 5527..6064, 6128..6977, 7542..7895		

Seq. No.	55748	Seq. ID	OJ000303_22.0419.C15
Gene No.	116784	Strand	+
Start	3121	End	7923

Name	OJ000303_22.0419.C15.o1.np	Method	AAT/NAP
Start	3702	End	7923
GI	7228457	Score	6208
Exons	3702..4068, 4130..6064, 6128..6962, 7085..7923		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806). [Oryza sativa]		

Seq. No.	55748	Seq. ID	OJ000303_22.0419.C15
Gene No.	116784	Strand	+
Start	3121	End	7923
Name	OJ000303_22.0419.C15.o3.tm	Method	TBLASTX:Maize
Start	4362	End	4646
GI	none	Score	193
Exons	4362..4634, 4398..4646, 4400..4645		

Seq. No.	55748	Seq. ID	OJ000303_22.0419.C15
Gene No.	116784	Strand	+
Start	3121	End	7923
Name	OJ000303_22.0419.C15.o4.tw	Method	TBLASTX:Wheat
Start	4410	End	4748
GI	none	Score	116
Exons	4410..4508, 4415..4507, 4475..4714, 4491..4748		

Seq. No.	55748	Seq. ID	OJ000303_22.0419.C15
Gene No.	116784	Strand	+
Start	3121	End	7923
Name	OJ000303_22.0419.C15.o3.tw	Method	TBLASTX:Wheat
Start	5536	End	5971
GI	none	Score	387
Exons	5536..5658, 5537..5971, 5680..5940, 5750..5944		

Seq. No.	55748	Seq. ID	OJ000303_22.0419.C15
Gene No.	116784	Strand	+
Start	3121	End	7923
Name	OJ000303_22.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	6135	End	6598
GI	none	Score	197
Exons	6135..6578, 6136..6591, 6137..6598, 6137..6592		

Seq. No.	55748	Seq. ID	OJ000303_22.0419.C15
Gene No.	116784	Strand	+
Start	3121	End	7923
Name	OJ000303_22.0419.C15.o2.ts	Method	TBLASTX:Soybean
Start	6176	End	6541
GI	none	Score	113
Exons	6176..6400, 6407..6541		

Seq. No.	55748	Seq. ID	OJ000303_22.0419.C15
Gene No.	116784	Strand	+
Start	3121	End	7923
Name	OJ000303_22.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	6266	End	6622
GI	none	Score	392
Exons	6266..6622, 6301..6612, 6317..6622		

Seq. No.	55748	Seq. ID	OJ000303_22.0419.C15
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Gene No. 116784
 Start 3121
 Name OJ000303_22.0419.C15.o2.tm
 Start 6649
 GI none
 Exons 6649..7002, 6650..6994

Strand +
 End 7923
 Method TBLASTX:Maize
 End 7002
 Score 320

Seq. No. 55748
 Gene No. 116784
 Start 3121
 Name OJ000303_22.0419.C15.o2.tw
 Start 6706
 GI none
 Exons 6706..7101, 6707..7126

Seq. ID OJ000303_22.0419.C15
 Strand +
 End 7923
 Method TBLASTX:Wheat
 End 7126
 Score 429

Seq. No. 55748
 Gene No. 116784
 Start 3121
 Name OJ000303_22.0419.C15.o1.ts
 Start 6785
 GI none
 Exons 6785..7156, 6802..6945

Seq. ID OJ000303_22.0419.C15
 Strand +
 End 7923
 Method TBLASTX:Soybean
 End 7156
 Score 235

Seq. No. 55748
 Gene No. 116784
 Start 3121
 Name OJ000303_22.0419.C15.o5.tw
 Start 7676
 GI none
 Exons 7676..7918, 7711..7917

Seq. ID OJ000303_22.0419.C15
 Strand +
 End 7923
 Method TBLASTX:Wheat
 End 7918
 Score 245

Seq. No. 55749
 Gene No. 116785
 Start 1
 Name OJ000303_22.0419.C16.o1.np
 Start 1
 GI 7228457
 Exons 1..29, 96..1645
 GI Descrip. (AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]

Seq. ID OJ000303_22.0419.C16
 Strand +
 End 1645
 Method AAT/NAP
 End 1645
 Score 2584

Seq. No. 55749
 Gene No. 116785
 Start 1
 Name OJ000303_22.0419.C16.o1.gs
 Start 70
 GI none
 Exons 70..1508

Seq. ID OJ000303_22.0419.C16
 Strand +
 End 1645
 Method GENSCAN
 End 1508
 Score .81

Seq. No. 55749
 Gene No. 116786
 Start 1805
 Name OJ000303_22.0419.C16.o1.gp
 Start 1805
 GI 2428323
 Exons 1805..2274

Seq. ID OJ000303_22.0419.C16
 Strand +
 End 2274
 Method AAT/GAP
 End 2274
 Score 834

GI Descrip. 5803242/dbj|AP000399.1|AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04

Seq. No.	55749	Seq. ID	OJ000303_22.0419.C16
Gene No.	116787	Strand	-
Start	2282	End	5541
Name	OJ000303_22.0419.C16.o2.gs	Method	GENSCAN
Start	2282	End	5541
GI	none	Score	.98
Exons	2282..4184, 4280..5541		

Seq. No.	55749	Seq. ID	OJ000303_22.0419.C16
Gene No.	116787	Strand	-
Start	2282	End	5541
Name	OJ000303_22.0419.C16.o2.np	Method	AAT/NAP
Start	2285	End	5541
GI	5803259	Score	5196
Exons	2285..4184, 4280..5541		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	55749	Seq. ID	OJ000303_22.0419.C16
Gene No.	116788	Strand	-
Start	5922	End	6037
Name	OJ000303_22.0419.C16.o3.tw	Method	TBLASTX:Wheat
Start	2	End	323
GI	none	Score	197
Exons	2..187, 3..323		

Seq. No.	55749	Seq. ID	OJ000303_22.0419.C16
Gene No.	116788	Strand	-
Start	5922	End	6037
Name	OJ000303_22.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	516	End	839
GI	none	Score	360
Exons	516..839, 545..826		

Seq. No.	55749	Seq. ID	OJ000303_22.0419.C16
Gene No.	116788	Strand	-
Start	5922	End	6037
Name	OJ000303_22.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	653	End	1034
GI	none	Score	365
Exons	653..709, 654..1034, 750..995, 755..1003		

Seq. No.	55749	Seq. ID	OJ000303_22.0419.C16
Gene No.	116788	Strand	-
Start	5922	End	6037
Name	OJ000303_22.0419.C16.o2.tw	Method	TBLASTX:Wheat
Start	1035	End	1636
GI	none	Score	267
Exons	1035..1331, 1035..1451, 1510..1632, 1511..1636		

Seq. No.	55749	Seq. ID	OJ000303_22.0419.C16
Gene No.	116788	Strand	-
Start	5922	End	6037
Name	OJ000303_22.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	1505	End	1648

GI	none	Score	180
Exons	1505..1648, 1510..1644		
Seq. No.	55749	Seq. ID	OJ000303_22.0419.C16
Gene No.	116788	Strand	-
Start	5922	End	6037
Name	OJ000303_22.0419.C16.o3.gs	Method	GENSCAN
Start	5922	End	6037
GI	none	Score	.53
Exons	5922..6037		
Seq. No.	55750	Seq. ID	OJ000303_22.0419.C17
Gene No.	116789	Strand	+
Start	366	End	830
Name	OJ000303_22.0419.C17.o1.gs	Method	GENSCAN
Start	366	End	830
GI	none	Score	.48
Exons	366..422, 660..830		
Seq. No.	55750	Seq. ID	OJ000303_22.0419.C17
Gene No.	116790	Strand	-
Start	1	End	863
Name	OJ000303_22.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	863
GI	5922623	Score	238
Exons	1..79, 247..401, 779..863		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1 (AP000570) hypothetical protein [Oryza sativa]		
Seq. No.	55751	Seq. ID	OJ000303_22.0419.C20
Gene No.	116791	Strand	+
Start	1890	End	2022
Name	OJ000303_22.0419.C20.o2.gp	Method	AAT/GAP
Start	1890	End	2022
GI	LIB3474-009-P1-K1-F11	Score	225
Exons	1890..2022		
GI Descrip.	'4455244/emb CAB36743.1 6.0e-11 (AL035523) MtN3-like protein [Arabidopsis thaliana]'		
Seq. No.	55751	Seq. ID	OJ000303_22.0419.C20
Gene No.	116792	Strand	-
Start	432	End	2735
Name	OJ000303_22.0419.C20.o1.gp	Method	AAT/GAP
Start	432	End	1003
GI	16838 1.R1084	Score	1004
Exons	432..1003		
GI Descrip.	'1497987 5.0e-33 (U62798) SCARECROW [Arabidopsis thaliana]'		
Seq. No.	55751	Seq. ID	OJ000303_22.0419.C20
Gene No.	116792	Strand	-
Start	432	End	2735
Name	OJ000303_22.0419.C20.o1.gs	Method	GENSCAN
Start	675	End	1094
GI	none	Score	.56
Exons	675..1094		

Seq. No.	55751	Seq. ID	OJ000303_22.0419.C20
Gene No.	116792	Strand	-
Start	432	End	2735
Name	OJ000303_22.0419.C20.o1.np	Method	AAT/NAP
Start	690	End	2735
GI	6822068	Score	1234
Exons	690..1116, 2227..2735		
GI Descrip.	(AL132957) SCARECROW1 [Arabidopsis thaliana]		

Seq. No.	55751	Seq. ID	OJ000303_22.0419.C20
Gene No.	116792	Strand	-
Start	432	End	2735
Name	OJ000303_22.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	690	End	965
GI	none	Score	317
Exons	690..965, 694..963		

Seq. No.	55751	Seq. ID	OJ000303_22.0419.C20
Gene No.	116792	Strand	-
Start	432	End	2735
Name	OJ000303_22.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	696	End	2735
GI	none	Score	235
Exons	696..1118, 697..972, 703..1125, 876..1103, 1036..1119, 2226..2651, 2227..2640, 2697..2735		

Seq. No.	55751	Seq. ID	OJ000303_22.0419.C20
Gene No.	116792	Strand	-
Start	432	End	2735
Name	OJ000303_22.0419.C20.o3.ts	Method	TBLASTX:Soybean
Start	696	End	900
GI	none	Score	102
Exons	696..890, 696..899, 697..900		

Seq. No.	55751	Seq. ID	OJ000303_22.0419.C20
Gene No.	116792	Strand	-
Start	432	End	2735
Name	OJ000303_22.0419.C20.o2.ts	Method	TBLASTX:Soybean
Start	927	End	1120
GI	none	Score	139
Exons	927..1118, 927..1118, 929..1120, 1036..1119		

Seq. No.	55751	Seq. ID	OJ000303_22.0419.C20
Gene No.	116792	Strand	-
Start	432	End	2735
Name	OJ000303_22.0419.C20.o3.tm	Method	TBLASTX:Maize
Start	978	End	2388
GI	none	Score	96
Exons	978..1118, 979..1119, 980..1078, 981..1118, 1033..1119, 2226..2387, 2226..2387, 2227..2388		

Seq. No.	55751	Seq. ID	OJ000303_22.0419.C20
Gene No.	116792	Strand	-
Start	432	End	2735
Name	OJ000303_22.0419.C20.o2.gs	Method	GENSCAN
Start	2130	End	2645
GI	none	Score	.98

Exons 2130..2645

Seq. No.	55751	Seq. ID	OJ000303_22.0419.C20
Gene No.	116792	Strand	-
Start	432	End	2735
Name	OJ000303_22.0419.C20.ol.ts	Method	TBLASTX:Soybean
Start	2223	End	2735
GI	none	Score	126
Exons	2223..2375, 2224..2640, 2226..2651, 2700..2735		

Seq. No.	55751	Seq. ID	OJ000303_22.0419.C20
Gene No.	116792	Strand	-
Start	432	End	2735
Name	OJ000303_22.0419.C20.ol.tm	Method	TBLASTX:Maize
Start	2388	End	2735
GI	none	Score	380
Exons	2388..2735, 2389..2733		

Seq. No.	55752	Seq. ID	OJ000303_22.0419.C21
Gene No.	116793	Strand	+
Start	205	End	558
Name	OJ000303_22.0419.C21.ol.gs	Method	GENSCAN
Start	205	End	558
GI	none	Score	.71
Exons	205..348, 514..558		

Seq. No.	55753	Seq. ID	OJ000303_22.0419.C22
Gene No.	116794	Strand	+
Start	1	End	4022
Name	OJ000303_22.0419.C22.ol.np	Method	AAT/NAP
Start	1	End	1303
GI	7228457	Score	1873
Exons	1..160, 283..1303		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	55753	Seq. ID	OJ000303_22.0419.C22
Gene No.	116794	Strand	+
Start	1	End	4022
Name	OJ000303_22.0419.C22.ol.gs	Method	GENSCAN
Start	163	End	4022
GI	none	Score	.41
Exons	163..546, 564..1277, 1964..2053, 2301..2507, 3915..4022		

Seq. No.	55753	Seq. ID	OJ000303_22.0419.C22
Gene No.	116794	Strand	+
Start	1	End	4022
Name	OJ000303_22.0419.C22.o3.np	Method	AAT/NAP
Start	896	End	2354
GI	5042454	Score	367
Exons	896..1040, 1625..1652, 1878..2053, 2301..2354		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	55753	Seq. ID	OJ000303_22.0419.C22
Gene No.	116795	Strand	-
Start	1459	End	1582

Name	OJ000303_22.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	2	End	354
GI	none	Score	124
Exons	2..127, 124..354		
Seq. No.	55753	Seq. ID	OJ000303_22.0419.C22
Gene No.	116795	Strand	-
Start	1459	End	1582
Name	OJ000303_22.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	2	End	324
GI	none	Score	166
Exons	2..136, 10..135, 118..324, 144..317		
Seq. No.	55753	Seq. ID	OJ000303_22.0419.C22
Gene No.	116795	Strand	-
Start	1459	End	1582
Name	OJ000303_22.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	49	End	408
GI	none	Score	72
Exons	49..126, 53..133, 124..306, 141..305, 325..408, 369..407		
Seq. No.	55753	Seq. ID	OJ000303_22.0419.C22
Gene No.	116795	Strand	-
Start	1459	End	1582
Name	OJ000303_22.0419.C22.o2.tw	Method	TBLASTX:Wheat
Start	879	End	1145
GI	none	Score	254
Exons	879..1145, 909..1052, 977..1141		
Seq. No.	55753	Seq. ID	OJ000303_22.0419.C22
Gene No.	116795	Strand	-
Start	1459	End	1582
Name	OJ000303_22.0419.C22.o2.np	Method	AAT/NAP
Start	1459	End	1582
GI	7523512	Score	149
Exons	1459..1582		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		
Seq. No.	55754	Seq. ID	OJ000303_22.0419.C25
Gene No.	116796	Strand	+
Start	672	End	1000
Name	OJ000303_22.0419.C25.o1.gs	Method	GENSCAN
Start	672	End	1000
GI	none	Score	.93
Exons	672..857, 896..1000		
Seq. No.	55755	Seq. ID	OJ000323_22.0418.C2
Gene No.	116797	Strand	+
Start	1	End	10511
Name	OJ000323_22.0418.C2.o1.np	Method	AAT/NAP
Start	1	End	10511
GI	5305335	Score	148
Exons	1..19, 1050..1506, 5465..5494, 6362..6577, 7315..7405, 10327..10511		
GI Descrip.	(AF071081) proline-rich mucin homolog [Mycobacterium tuberculosis]		

Seq. No.	55755	Seq. ID	OJ000323_22.0418.C2
Gene No.	116797	Strand	+
Start	1	End	10511
Name	OJ000323_22.0418.C2.o1.gs	Method	GENSCAN
Start	1174	End	1624
GI	none	Score	.4
Exons	1174..1624		

Seq. No.	55755	Seq. ID	OJ000323_22.0418.C2
Gene No.	116798	Strand	+
Start	14125	End	16677
Name	OJ000323_22.0418.C2.o4.gs	Method	GENSCAN
Start	14125	End	16677
GI	none	Score	.76
Exons	14125..14236, 14921..14961, 16319..16500, 16554..16677		

Seq. No.	55755	Seq. ID	OJ000323_22.0418.C2
Gene No.	116799	Strand	-
Start	4168	End	6873
Name	OJ000323_22.0418.C2.o2.gs	Method	GENSCAN
Start	4168	End	6873
GI	none	Score	.56
Exons	4168..4263, 4268..4345, 4492..4590, 5138..5545, 6012..6299, 6390..6690, 6704..6873		

Seq. No.	55755	Seq. ID	OJ000323_22.0418.C2
Gene No.	116800	Strand	-
Start	7772	End	11962
Name	OJ000323_22.0418.C2.o3.gs	Method	GENSCAN
Start	7772	End	11962
GI	none	Score	.44
Exons	7772..7813, 7917..8069, 8179..8317, 8890..9286, 11444..11659, 11929..11962		

Seq. No.	55755	Seq. ID	OJ000323_22.0418.C2
Gene No.	116800	Strand	-
Start	7772	End	11962
Name	OJ000323_22.0418.C2.o2.np	Method	AAT/NAP
Start	11408	End	11718
GI	6539588	Score	233
Exons	11408..11718		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	55755	Seq. ID	OJ000323_22.0418.C2
Gene No.	116801	Strand	-
Start	11894	End	12349
Name	OJ000323_22.0418.C2.o1.gp	Method	AAT/GAP
Start	11894	End	12349
GI	4968598	Score	783
Exons	11894..12349		

Seq. No.	55755	Seq. ID	OJ000323_22.0418.C2
Gene No.	116801	Strand	-
Start	11894	End	12349
Name	OJ000323_22.0418.C2.o2.gp	Method	AAT/GAP
Start	12104	End	12349
GI	4968598	Score	416

Exons 12104..12349

Seq. No.	55755	Seq. ID	OJ000323_22.0418.C2
Gene No.	116802	Strand	
Start	17444	End	17984
Name	OJ000323_22.0418.C2.o1.tm	Method	TBLASTX:Maize
Start	17444	End	17792
GI	none	Score	197
Exons	17444..17530, 17534..17770, 17535..17735, 17556..17792		

Seq. No.	55755	Seq. ID	OJ000323_22.0418.C2
Gene No.	116802	Strand	
Start	17444	End	17984
Name	OJ000323_22.0418.C2.o1.ts	Method	TBLASTX:Soybean
Start	17564	End	17984
GI	none	Score	93
Exons	17564..17749, 17586..17729, 17738..17974, 17739..17984		

Seq. No.	55755	Seq. ID	OJ000323_22.0418.C2
Gene No.	116802	Strand	
Start	17444	End	17984
Name	OJ000323_22.0418.C2.o1.tw	Method	TBLASTX:Wheat
Start	17567	End	17941
GI	none	Score	98
Exons	17567..17941, 17583..17696		

Seq. No.	55756	Seq. ID	OJ000323_22.0418.C3
Gene No.	116803	Strand	+
Start	105	End	1899
Name	OJ000323_22.0418.C3.o1.gs	Method	GENSCAN
Start	105	End	1899
GI	none	Score	.48
Exons	105..113, 1882..1899		

Seq. No.	55756	Seq. ID	OJ000323_22.0418.C3
Gene No.	116804	Strand	-
Start	797	End	1130
Name	OJ000323_22.0418.C3.o1.gp	Method	AAT/GAP
Start	797	End	1130
GI	92678_1.R1084	Score	359
Exons	797..914, 987..1130		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 9.0e-67 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	55757	Seq. ID	OJ000323_22.0418.C4
Gene No.	116805	Strand	+
Start	34	End	186
Name	OJ000323_22.0418.C4.o1.gs	Method	GENSCAN
Start	34	End	186
GI	none	Score	.59
Exons	34..186		

Seq. No.	55757	Seq. ID	OJ000323_22.0418.C4
Gene No.	116806	Strand	+
Start	4893	End	8117
Name	OJ000323_22.0418.C4.o3.gs	Method	GENSCAN
Start	4893	End	8117

GI	none	Score	.65
Exons	4893..5028, 5782..6578, 8010..8117		
Seq. No.	55757	Seq. ID	OJ000323_22.0418.C4
Gene No.	116807	Strand	+
Start	9189	End	13225
Name	OJ000323_22.0418.C4.o3.np	Method	AAT/NAP
Start	9189	End	10616
GI	7242910	Score	104
Exons	9189..9616, 10130..10416, 10503..10616		
GI Descrip.	(AP001383) hypothetical protein [Oryza sativa]		

Seq. No.	55757	Seq. ID	OJ000323_22.0418.C4
Gene No.	116807	Strand	+
Start	9189	End	13225
Name	OJ000323_22.0418.C4.o5.gs	Method	GENSCAN
Start	10167	End	13225
GI	none	Score	.6
Exons	10167..10465, 11535..11589, 11998..12093, 12564..12742; 13041..13225		

Seq. No.	55757	Seq. ID	OJ000323_22.0418.C4
Gene No.	116808	Strand	-
Start	1442	End	2972
Name	OJ000323_22.0418.C4.o1.gp	Method	AAT/GAP
Start	849	End	1011
GI	5455363	Score	104
Exons	849..874, 938..1011		
GI Descrip.	3176667 1.0e-17 (AC004393) Similar to hypothetical 41.9KD protein gb_1001369 from sequence of Synechocystis sp. gb_D64006. [Arabidopsis thaliana]		

Seq. No.	55757	Seq. ID	OJ000323_22.0418.C4
Gene No.	116808	Strand	-
Start	1442	End	2972
Name	OJ000323_22.0418.C4.o2.gs	Method	GENSCAN
Start	1442	End	2972
GI	none	Score	.84
Exons	1442..1705, 2353..2557, 2926..2972		

Seq. No.	55757	Seq. ID	OJ000323_22.0418.C4
Gene No.	116809	Strand	-
Start	7792	End	13329
Name	OJ000323_22.0418.C4.o4.tm	Method	TBLASTX:Maize
Start	5873	End	6047
GI	none	Score	191
Exons	5873..5968, 5874..6047, 5886..6041		

Seq. No.	55757	Seq. ID	OJ000323_22.0418.C4
Gene No.	116809	Strand	-
Start	7792	End	13329
Name	OJ000323_22.0418.C4.o1.tm	Method	TBLASTX:Maize
Start	6132	End	7049
GI	none	Score	232
Exons	6132..6362, 6155..6358, 6264..6362, 6374..6577, 6375..7049, 6620..6700, 6825..6977		

Seq. No.	55757	Seq. ID	OJ000323_22.0418.C4
Gene No.	116809	Strand	-
Start	7792	End	13329
Name	OJ000323_22.0418.C4.o1.tw	Method	TBLASTX:Wheat
Start	6186	End	6494
GI	none	Score	224
Exons	6186..6368, 6218..6367, 6369..6494, 6374..6460		

Seq. No.	55757	Seq. ID	OJ000323_22.0418.C4
Gene No.	116809	Strand	-
Start	7792	End	13329
Name	OJ000323_22.0418.C4.o2.tm	Method	TBLASTX:Maize
Start	7299	End	7770
GI	none	Score	305
Exons	7299..7517, 7300..7671, 7689..7766, 7738..7770		

Seq. No.	55757	Seq. ID	OJ000323_22.0418.C4
Gene No.	116809	Strand	-
Start	7792	End	13329
Name	OJ000323_22.0418.C4.o2.tw	Method	TBLASTX:Wheat
Start	7495	End	7857
GI	none	Score	122
Exons	7495..7686, 7632..7853, 7676..7828, 7702..7854, 7738..7857		

Seq. No.	55757	Seq. ID	OJ000323_22.0418.C4
Gene No.	116809	Strand	-
Start	7792	End	13329
Name	OJ000323_22.0418.C4.o2.np	Method	AAT/NAP
Start	7792	End	13329
GI	7486567	Score	69
Exons	7792..7826, 9729..9925, 10011..10164, 13290..13329		
GI Descrip.	hypothetical protein F7H19.150 - Arabidopsis thaliana gi 3292822 emb CAA19812.1 (AL031018) putative protein [Arabidopsis thaliana] gi 7269144 emb CAB79252.1 (AL161558) putative protein [Arabidopsis thaliana]		

Seq. No.	55757	Seq. ID	OJ000323_22.0418.C4
Gene No.	116809	Strand	-
Start	7792	End	13329
Name	OJ000323_22.0418.C4.o4.gs	Method	GENSCAN
Start	9213	End	9912
GI	none	Score	.81
Exons	9213..9447, 9470..9912		

Seq. No.	55757	Seq. ID	OJ000323_22.0418.C4
Gene No.	116809	Strand	-
Start	7792	End	13329
Name	OJ000323_22.0418.C4.o3.tm	Method	TBLASTX:Maize
Start	10777	End	11070
GI	none	Score	156
Exons	10777..10947, 10812..10937, 10821..10964, 10969..11070		

Seq. No.	55758	Seq. ID	OJ000323_22.0418.C5
Gene No.	116810	Strand	+
Start	1	End	8581
Name	OJ000323_22.0418.C5.o1.np	Method	AAT/NAP
Start	1	End	1782

GI 6688926 Score 104
 Exons 1..147, 1133..1205, 1675..1782
 GI Descrip. (AJ251365) VAP27 [Nicotiana plumbaginifolia]

Seq. No. 55758 Seq. ID OJ000323_22.0418.C5
 Gene No. 116810 Strand +
 Start 1 End 8581
 Name OJ000323_22.0418.C5.o1.gs Method GENSCAN
 Start 76 End 8581
 GI none Score .42
 Exons 76..190, 1118..1205, 3178..3554, 3708..3846, 4741..4790,
 5110..5199, 8277..8581

Seq. No. 55759 Seq. ID OJ000323_22.0418.C6
 Gene No. 116811 Strand +
 Start 1069 End 1926
 Name OJ000323_22.0418.C6.o1.gs Method GENSCAN
 Start 1069 End 1926
 GI none Score .93
 Exons 1069..1118, 1686..1926

Seq. No. 55759 Seq. ID OJ000323_22.0418.C6
 Gene No. 116812 Strand +
 Start 16766 End 19572
 Name OJ000323_22.0418.C6.o3.np Method AAT/NAP
 Start 16766 End 17920
 GI 5777617 Score 125
 Exons 16766..16864, 17171..17260, 17803..17920
 GI Descrip. (AJ245900) CAA30375.1 protein [Oryza sativa]

Seq. No. 55759 Seq. ID OJ000323_22.0418.C6
 Gene No. 116812 Strand +
 Start 16766 End 19572
 Name OJ000323_22.0418.C6.o4.np Method AAT/NAP
 Start 17341 End 19572
 GI 7340909 Score 144
 Exons 17341..17390, 18574..18865, 19308..19572
 GI Descrip. (AP001550) hypothetical protein [Oryza sativa]

Seq. No. 55759 Seq. ID OJ000323_22.0418.C6
 Gene No. 116813 Strand -
 Start 2495 End 15880
 Name OJ000323_22.0418.C6.o2.gs Method GENSCAN
 Start 2495 End 15880
 GI none Score .53
 Exons 2495..2629, 2747..3466, 5470..5598, 6637..6658, 6855..7042,
 9678..9840, 10778..10972, 11032..11236, 11550..12373,
 12388..12866, 12879..13112, 13125..13373, 13490..13963,
 14068..14254, 14289..15880

Seq. No. 55759 Seq. ID OJ000323_22.0418.C6
 Gene No. 116813 Strand -
 Start 2495 End 15880
 Name OJ000323_22.0418.C6.o1.np Method AAT/NAP
 Start 2498 End 2883
 GI 7486198 Score 108
 Exons 2498..2604, 2755..2883

GI Descrip. hypothetical protein F26K10.170 - Arabidopsis thaliana
gi|7269683|emb|CAB79631.1| (AL161572) putative protein
[Arabidopsis thaliana]

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116813	Strand	-
Start	2495	End	15880
Name	OJ000323_22.0418.C6.o2.np	Method	AAT/NAP
Start	11551	End	15691
GI	7228446	Score	3362
Exons	11551..12420, 12507..14778, 14810..15691		
GI Descrip.	(AP001366) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative retroelement pol polyprotein. (AC006248) [Oryza sativa]		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o1.tc	Method	TBLASTX:Cress
Start	11545	End	12246
GI	none	Score	79
Exons	11545..11820, 11570..11776, 11818..11943, 11840..11944, 11935..12024, 11951..12010, 12055..12246		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o2.ts	Method	TBLASTX:Soybean
Start	11560	End	12216
GI	none	Score	80
Exons	11560..12024, 11612..11749, 11840..12025, 12085..12216		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o7.tm	Method	TBLASTX:Maize
Start	11572	End	11817
GI	none	Score	93
Exons	11572..11817, 11690..11812		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o1.tm	Method	TBLASTX:Maize
Start	11818	End	12343
GI	none	Score	125
Exons	11818..12024, 11873..12037, 12076..12276, 12082..12273; 12302..12343		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o4.tw	Method	TBLASTX:Wheat
Start	11971	End	12411
GI	none	Score	106
Exons	11971..12024, 12049..12237, 12265..12411		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o1.ts	Method	TBLASTX:Soybean
Start	12591	End	13070
GI	5509260	Score	51
Exons	12591..13070, 12595..12660, 12694..12768, 12850..13044		
GI Descrip.	-		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o2.tw	Method	TBLASTX:Wheat
Start	12606	End	13052
GI	none	Score	96
Exons	12606..12947, 12610..12768, 12981..13052		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o2.tc	Method	TBLASTX:Cress
Start	12705	End	12969
GI	none	Score	99
Exons	12705..12968, 12844..12969		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o2.tm	Method	TBLASTX:Maize
Start	12744	End	13061
GI	none	Score	220
Exons	12744..13061, 12745..13053, 12792..13061		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o3.ts	Method	TBLASTX:Soybean
Start	13428	End	13903
GI	none	Score	142
Exons	13428..13466, 13466..13903, 13602..13898		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o3.tc	Method	TBLASTX:Cress
Start	13466	End	13912
GI	none	Score	213
Exons	13466..13912		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o3.tm	Method	TBLASTX:Maize
Start	13505	End	13934
GI	none	Score	59
Exons	13505..13564, 13505..13567, 13589..13930, 13608..13934		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o1.tw	Method	TBLASTX:Wheat
Start	13577	End	14137
GI	none	Score	119
Exons	13577..13666, 13673..14137, 13683..13922		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o4.ts	Method	TBLASTX:Soybean
Start	13943	End	14272
GI	none	Score	93
Exons	13943..14272, 13947..14246, 14096..14176		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o3.tw	Method	TBLASTX:Wheat
Start	14216	End	14662
GI	none	Score	50
Exons	14216..14296, 14295..14366, 14297..14662, 14351..14620, 14433..14642		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o4.tm	Method	TBLASTX:Maize
Start	14276	End	14746
GI	none	Score	114
Exons	14276..14683, 14351..14674, 14481..14684, 14660..14746		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o6.tm	Method	TBLASTX:Maize
Start	15227	End	15539
GI	none	Score	158
Exons	15227..15538, 15231..15539		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o5.tw	Method	TBLASTX:Wheat
Start	15233	End	15628
GI	none	Score	62
Exons	15233..15628, 15450..15578		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o3.gs	Method	GENSCAN
Start	18071	End	24435
GI	none	Score	.55
Exons	18071..18497, 18786..18883, 19012..19239, 20147..20183, 20797..20921, 21778..22029, 22429..22494, 22770..22864,		

22882..22953, 24342..24435

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o5.np	Method	AAT/NAP
Start	18921	End	19297
GI	6714421	Score	332
Exons	18921..19297		
GI Descrip.	(AC012328) unknown protein [Arabidopsis thaliana]		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o5.tm	Method	TBLASTX:Maize
Start	18939	End	19312
GI	none	Score	196
Exons	18939..18992, 18988..19143, 18994..19143, 19010..19195, 19106..19195, 19195..19230, 19198..19215, 19226..19276, 19240..19272, 19274..19312, 19274..19309, 19276..19311		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o4.tc	Method	TBLASTX:Cress
Start	18942	End	19225
GI	none	Score	93
Exons	18942..18992, 18994..19104, 19010..19090, 19111..19224, 19115..19225		

Seq. No.	55759	Seq. ID	OJ000323_22.0418.C6
Gene No.	116814	Strand	-
Start	18071	End	24435
Name	OJ000323_22.0418.C6.o5.ts	Method	TBLASTX:Soybean
Start	18942	End	19225
GI	none	Score	39
Exons	18942..18992, 18958..18987, 18988..19092, 18994..19092, 19111..19224, 19112..19225		

Seq. No.	55760	Seq. ID	OJ000323_22.0418.C9
Gene No.	116815	Strand	+
Start	568	End	1041
Name	OJ000323_22.0418.C9.o1.gs	Method	GENSCAN
Start	568	End	888
GI	none	Score	.44
Exons	568..888		

Seq. No.	55760	Seq. ID	OJ000323_22.0418.C9
Gene No.	116815	Strand	+
Start	568	End	1041
Name	OJ000323_22.0418.C9.o1.tm	Method	TBLASTX:Maize
Start	649	End	1041
GI	none	Score	64
Exons	649..759, 805..1041		

Seq. No.	55761	Seq. ID	OJ000313_23.0419.C1
Gene No.	116816	Strand	-

Start	493	End	863
Name	OJ000313_23.0419.C1.ol.np	Method	AAT/NAP
Start	493	End	863
GI	6815062	Score	327
Exons	493..635, 747..863		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza sativa]		

Seq. No.	55762	Seq. ID	OJ000313_23.0419.C3
Gene No.	116817	Strand	+
Start	703	End	944
Name	OJ000313_23.0419.C3.ol.tm	Method	TBLASTX:Maize
Start	690	End	944
GI	none	Score	99
Exons	690..839, 691..840, 702..839, 905..943, 912..944, 914..943		

Seq. No.	55762	Seq. ID	OJ000313_23.0419.C3
Gene No.	116817	Strand	+
Start	703	End	944
Name	OJ000313_23.0419.C3.ol.gs	Method	GENSCAN
Start	703	End	837
GI	none	Score	.74
Exons	703..837		

Seq. No.	55763	Seq. ID	OJ000313_23.0419.C4
Gene No.	116818	Strand	+
Start	103	End	810
Name	OJ000313_23.0419.C4.ol.np	Method	AAT/NAP
Start	103	End	648
GI	5103835	Score	241
Exons	103..468, 580..648		
GI Descrip.	(AC007591) ESTs gb T22508, gb H36196 and gb AI100134 come from this gene. [Arabidopsis thaliana]		

Seq. No.	55763	Seq. ID	OJ000313_23.0419.C4
Gene No.	116818	Strand	+
Start	103	End	810
Name	OJ000313_23.0419.C4.ol.gp	Method	AAT/GAP
Start	344	End	810
GI	17190_1.R1084	Score	647
Exons	344..468, 580..810		
GI Descrip.	'5103835/gb AAD39665.1 AC007591 30 4.0e-56 (AC007591) ESTs gb_T22508, gb_H36196 and gb_AI100134 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	55763	Seq. ID	OJ000313_23.0419.C4
Gene No.	116819	Strand	+
Start	828	End	2275
Name	OJ000313_23.0419.C4.ol.tc	Method	TBLASTX:Cress
Start	327	End	654
GI	none	Score	192
Exons	327..467, 343..465, 568..654, 579..644		

Seq. No.	55763	Seq. ID	OJ000313_23.0419.C4
Gene No.	116819	Strand	+
Start	828	End	2275

Name	OJ000313_23.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	327	End	653
GI	none	Score	206
Exons	327..461, 343..468, 346..477, 568..645, 576..653		

Seq. No.	55763	Seq. ID	OJ000313_23.0419.C4
Gene No.	116819	Strand	+
Start	828	End	2275
Name	OJ000313_23.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	327	End	654
GI	none	Score	215
Exons	327..467, 338..478, 343..468, 568..654, 579..653		

Seq. No.	55763	Seq. ID	OJ000313_23.0419.C4
Gene No.	116819	Strand	+
Start	828	End	2275
Name	OJ000313_23.0419.C4.o1.gs	Method	GENSCAN
Start	828	End	2275
GI	none	Score	.83
Exons	828..898, 2134..2275		

Seq. No.	55764	Seq. ID	OJ000313_23.0419.C5
Gene No.	116820	Strand	+
Start	1246	End	5190
Name	OJ000313_23.0419.C5.o1.gs	Method	GENSCAN
Start	1246	End	5190
GI	none	Score	.7
Exons	1246..1386, 1836..2235, 2343..2586, 3324..3574, 3669..3875, 4144..4311, 4396..4725, 5089..5190		

Seq. No.	55764	Seq. ID	OJ000313_23.0419.C5
Gene No.	116821	Strand	+
Start	10297	End	10583
Name	OJ000313_23.0419.C5.o2.gp	Method	AAT/GAP
Start	10297	End	10583
GI	5004748	Score	570
Exons	10297..10583		

Seq. No.	55764	Seq. ID	OJ000313_23.0419.C5
Gene No.	116822	Strand	-
Start	5717	End	7744
Name	OJ000313_23.0419.C5.o1.gp	Method	AAT/GAP
Start	5630	End	6468
GI	LIB3433-050-P1-K1-A8	Score	606
Exons	5630..5845, 6345..6468		
GI Descrip.	'113172/sp P15543 ACP3_HORVU 1.0e-30 ACYL CARRIER PROTEIN III PRECURSOR (ACP III) >gi_100561_pir_S17928 acyl carrier protein 3 - barley >gi_166971 (M58754) acyl carrier protein III [Hordeum vulgare]'		

Seq. No.	55764	Seq. ID	OJ000313_23.0419.C5
Gene No.	116822	Strand	-
Start	5717	End	7744
Name	OJ000313_23.0419.C5.o2.gs	Method	GENSCAN
Start	5717	End	7744
GI	none	Score	.97
Exons	5717..5845, 6345..6467, 7688..7744		

Seq. No.	55764	Seq. ID	OJ000313_23.0419.C5
Gene No.	116822	Strand	-
Start	5717	End	7744
Name	OJ000313_23.0419.C5.o1.np	Method	AAT/NAP
Start	5720	End	7515
GI	113172	Score	261
Exons	5720..5845, 6345..6467, 7371..7515		
GI Descrip.	ACYL CARRIER PROTEIN III PRECURSOR (ACP III) gi 100561 pir S17928 acyl carrier protein 3 - barley gi 166971 (M58754) acyl carrier protein III [Hordeum vulgare]		

Seq. No.	55764	Seq. ID	OJ000313_23.0419.C5
Gene No.	116823	Strand	-
Start	10214	End	10420
Name	OJ000313_23.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	1909	End	2480
GI	none	Score	120
Exons	1909..2040, 1910..1948, 2056..2238, 2056..2211, 2058..2237, 2328..2480, 2341..2460		

Seq. No.	55764	Seq. ID	OJ000313_23.0419.C5
Gene No.	116823	Strand	-
Start	10214	End	10420
Name	OJ000313_23.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	3667	End	4728
GI	none	Score	214
Exons	3667..3840, 3673..3828, 3764..3835, 3771..3875, 4119..4226, 4120..4233, 4138..4230, 4142..4234, 4231..4311, 4232..4309, 4266..4340, 4393..4467, 4393..4452, 4395..4481, 4488..4727, 4489..4725, 4489..4728		

Seq. No.	55764	Seq. ID	OJ000313_23.0419.C5
Gene No.	116823	Strand	-
Start	10214	End	10420
Name	OJ000313_23.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	4431	End	4908
GI	none	Score	205
Exons	4431..4652, 4432..4725, 4438..4725, 4439..4726, 4843..4908		

Seq. No.	55764	Seq. ID	OJ000313_23.0419.C5
Gene No.	116823	Strand	-
Start	10214	End	10420
Name	OJ000313_23.0419.C5.o3.gs	Method	GENSCAN
Start	10214	End	10420
GI	none	Score	.93
Exons	10214..10420		

Seq. No.	55765	Seq. ID	OJ000313_23.0419.C6
Gene No.	116824	Strand	-
Start	1	End	554
Name	OJ000313_23.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	554
GI	6815062	Score	932
Exons	1..554		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza		

sativa]

Seq. No.	55765	Seq. ID	OJ000313_23.0419.C6
Gene No.	116824	Strand	-
Start	1	End	554
Name	OJ000313_23.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	3	End	513
GI	none	Score	188
Exons	3..335, 46..336, 354..500, 354..509, 388..513		

Seq. No.	55766	Seq. ID	OJ000313_23.0419.C7
Gene No.	116825	Strand	+
Start	1	End	1960
Name	OJ000313_23.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	1958
GI	2342682	Score	420
Exons	1..31, 458..595, 1116..1230, 1332..1550, 1740..1803, 1889..1958		
GI Descrip.	(AC000106) Contains similarity to Rattus AMP-activated protein kinase (gb X95577). [Arabidopsis thaliana]		

Seq. No.	55766	Seq. ID	OJ000313_23.0419.C7
Gene No.	116825	Strand	+
Start	1	End	1960
Name	OJ000313_23.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	459	End	1401
GI	none	Score	216
Exons	459..614, 476..604, 480..608, 1117..1230, 1125..1259, 1134..1259, 1378..1401		

Seq. No.	55766	Seq. ID	OJ000313_23.0419.C7
Gene No.	116825	Strand	+
Start	1	End	1960
Name	OJ000313_23.0419.C7.o1.gs	Method	GENSCAN
Start	477	End	1958
GI	none	Score	.91
Exons	477..608, 1132..1294, 1377..1550, 1740..1803, 1889..1958		

Seq. No.	55766	Seq. ID	OJ000313_23.0419.C7
Gene No.	116825	Strand	+
Start	1	End	1960
Name	OJ000313_23.0419.C7.o1.gp	Method	AAT/GAP
Start	1120	End	1960
GI	36420 1.R1084	Score	747
Exons	1120..1294, 1377..1550, 1740..1803, 1889..1960		
GI Descrip.	'2342682 4.0e-79 (AC000106) Contains similarity to Rattus AMP-activated protein kinase (gb_X95577). [Arabidopsis thaliana]'		

Seq. No.	55766	Seq. ID	OJ000313_23.0419.C7
Gene No.	116825	Strand	+
Start	1	End	1960
Name	OJ000313_23.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	1153	End	1554
GI	none	Score	89
Exons	1153..1230, 1155..1229, 1375..1554, 1376..1549		

Seq. No.	55766	Seq. ID	OJ000313_23.0419.C7
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Gene No.	116825	Strand	+
Start	1	End	1960
Name	OJ000313_23.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	1405	End	1960
GI	none	Score	217
Exons	1405..1548, 1406..1561, 1406..1552, 1554..1583, 1555..1584, 1710..1790, 1713..1802, 1715..1801, 1885..1959, 1887..1958, 1889..1960		

Seq. No.	55767	Seq. ID	OJ000313_23.0419.C8
Gene No.	116826	Strand	+
Start	112	End	223
Name	OJ000313_23.0419.C8.o1.gp	Method	AAT/GAP
Start	112	End	223
GI	36420_1.R1084	Score	241
Exons	112..223		
GI Descrip.	'2342682 4.0e-79 (AC000106) Contains similarity to Rattus AMP-activated protein kinase (gb_X95577). [Arabidopsis thaliana]'		

Seq. No.	55767	Seq. ID	OJ000313_23.0419.C8
Gene No.	116827	Strand	+
Start	972	End	3354
Name	OJ000313_23.0419.C8.o1.qs	Method	GENSCAN
Start	972	End	3137
GI	none	Score	.96
Exons	972..1073, 1533..1640, 2405..2824, 2901..3137		

Seq. No.	55767	Seq. ID	OJ000313_23.0419.C8
Gene No.	116827	Strand	+
Start	972	End	3354
Name	OJ000313_23.0419.C8.o1.np	Method	AAT/NAP
Start	1207	End	3134
GI	170131	Score	614
Exons	1207..1357, 1537..1640, 2405..2821, 2901..3134		
GI Descrip.	(M55322) ribosomal protein 30S subunit [Spinacia oleracea]		

Seq. No.	55767	Seq. ID	OJ000313_23.0419.C8
Gene No.	116827	Strand	+
Start	972	End	3354
Name	OJ000313_23.0419.C8.o2.gp	Method	AAT/GAP
Start	1458	End	3354
GI	1312_1.R1084	Score	1956
Exons	1458..1640, 2405..2824, 2901..3354		
GI Descrip.	'170131 3.0e-65 (M55322) ribosomal protein 30S subunit [Spinacia oleracea]'		

Seq. No.	55767	Seq. ID	OJ000313_23.0419.C8
Gene No.	116828	Strand	-
Start	4435	End	4743
Name	OJ000313_23.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1481	End	2637
GI	none	Score	36
Exons	1481..1504, 1485..1505, 1553..1624, 1587..1643, 2402..2635, 2443..2637		

Seq. No.	55767	Seq. ID	OJ000313_23.0419.C8
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Gene No.	116828	Strand	-
Start	4435	End	4743
Name	OJ000313_23.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	1587	End	2605
GI	none	Score	79
Exons	1587..1643, 2354..2512, 2443..2517, 2506..2601, 2507..2605		

Seq. No.	55767	Seq. ID	OJ000313_23.0419.C8
Gene No.	116828	Strand	-
Start	4435	End	4743
Name	OJ000313_23.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	2497	End	3091
GI	none	Score	167
Exons	2497..2631, 2498..2635, 2898..3089, 2903..3076, 2978..3091		

Seq. No.	55767	Seq. ID	OJ000313_23.0419.C8
Gene No.	116828	Strand	-
Start	4435	End	4743
Name	OJ000313_23.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	2898	End	3089
GI	none	Score	191
Exons	2898..3047, 2900..3046, 2991..3089		

Seq. No.	55767	Seq. ID	OJ000313_23.0419.C8
Gene No.	116828	Strand	-
Start	4435	End	4743
Name	OJ000313_23.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	2906	End	3077
GI	none	Score	252
Exons	2906..3076, 2907..3077		

Seq. No.	55767	Seq. ID	OJ000313_23.0419.C8
Gene No.	116828	Strand	-
Start	4435	End	4743
Name	OJ000313_23.0419.C8.o2.gs	Method	GENSCAN
Start	4435	End	4743
GI	none	Score	.47
Exons	4435..4743		

Seq. No.	55768	Seq. ID	OJ000313_23.0419.C9
Gene No.	116829	Strand	-
Start	11	End	402
Name	OJ000313_23.0419.C9.o1.gs	Method	GENSCAN
Start	11	End	402
GI	none	Score	.56
Exons	11..402		

Seq. No.	55768	Seq. ID	OJ000313_23.0419.C9
Gene No.	116829	Strand	-
Start	11	End	402
Name	OJ000313_23.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	124	End	378
GI	none	Score	177
Exons	124..276, 194..376, 331..378		

Seq. No.	55769	Seq. ID	OJ000313_23.0419.C10
Gene No.	116830	Strand	+

Start 279
 Name OJ000313_23.0419.C10.o1.gs
 Start 279
 GI none
 Exons 279..402, 711..821

End 821
 Method GENSCAN
 End 821
 Score .43

Seq. No. 55769
 Gene No. 116831
 Start 2856
 Name OJ000313_23.0419.C10.o2.gs
 Start 2856
 GI none
 Exons 2856..3071, 5685..5780

Seq. ID OJ000313_23.0419.C10
 Strand +
 End 5780
 Method GENSCAN
 End 5780
 Score .92

Seq. No. 55769
 Gene No. 116832
 Start 12645
 Name OJ000313_23.0419.C10.o1.gp
 Start 12468
 GI 1016_1.R1084
 Exons 12468..13291

Seq. ID OJ000313_23.0419.C10
 Strand +
 End 13291
 Method AAT/GAP
 End 13291
 Score 1615

GI Descrip. '1854637 0.0e+00 (U50333) gibberellin C-20 oxidase [Oryza sativa]'

Seq. No. 55769
 Gene No. 116832
 Start 12645
 Name OJ000313_23.0419.C10.o1.np
 Start 12639
 GI 7433224
 Exons 12639..13291

Seq. ID OJ000313_23.0419.C10
 Strand +
 End 13291
 Method AAT/NAP
 End 13291
 Score 1073

GI Descrip. probable gibberellin C-20 oxidase (EC 1.14.11.-) - rice
 gi|1854637|gb|AAB48239.1| (U50333) gibberellin C-20 oxidase
 [Oryza sativa]

Seq. No. 55769
 Gene No. 116832
 Start 12645
 Name OJ000313_23.0419.C10.o5.gs
 Start 12645
 GI none
 Exons 12645..13199

Seq. ID OJ000313_23.0419.C10
 Strand +
 End 13291
 Method GENSCAN
 End 13199
 Score .56

Seq. No. 55769
 Gene No. 116832
 Start 12645
 Name OJ000313_23.0419.C10.o1.tc
 Start 12675
 GI none
 Exons 12675..12746, 12735..13061, 12833..13045, 13134..13232,
 13224..13289

Seq. ID OJ000313_23.0419.C10
 Strand +
 End 13291
 Method TBLASTX:Cress
 End 13289
 Score 77

Seq. No. 55769
 Gene No. 116832
 Start 12645
 Name OJ000313_23.0419.C10.o1.tm
 Start 12675

Seq. ID OJ000313_23.0419.C10
 Strand +
 End 13291
 Method TBLASTX:Maize
 End 13058

GI	none	Score	127
Exons	12675..12803, 12675..12788, 12771..13058, 12815..13051		

Seq. No.	55769	Seq. ID	OJ000313_23.0419.C10
Gene No.	116832	Strand	+
Start	12645	End	13291
Name	OJ000313_23.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	12809	End	13289
GI	none	Score	300
Exons	12809..13045, 12810..13061, 13131..13223, 13224..13289		

Seq. No.	55770	Seq. ID	OJ000313_23.0419.C11
Gene No.	116833	Strand	+
Start	1	End	176
Name	OJ000313_23.0419.C11.o1.gp	Method	AAT/GAP
Start	1	End	176
GI	1016 1.R1084	Score	348
Exons	1..176		
GI Descrip.	'1854637 0.0e+00 (U50333) gibberellin C-20 oxidase [Oryza sativa]'		

Seq. No.	55770	Seq. ID	OJ000313_23.0419.C11
Gene No.	116834	Strand	+
Start	575	End	1435
Name	OJ000313_23.0419.C11.o1.np	Method	AAT/NAP
Start	575	End	1435
GI	6069646	Score	308
Exons	575..1435		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	55770	Seq. ID	OJ000313_23.0419.C11
Gene No.	116834	Strand	+
Start	575	End	1435
Name	OJ000313_23.0419.C11.o1.gs	Method	GENSCAN
Start	675	End	1298
GI	none	Score	.42
Exons	675..1298		

Seq. No.	55770	Seq. ID	OJ000313_23.0419.C11
Gene No.	116835	Strand	+
Start	3995	End	4050
Name	OJ000313_23.0419.C11.o2.gp	Method	AAT/GAP
Start	3995	End	4050
GI	3759960	Score	60
Exons	3995..4050		

Seq. No.	55770	Seq. ID	OJ000313_23.0419.C11
Gene No.	116836	Strand	-
Start	6227	End	6347
Name	OJ000313_23.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	621	End	1010
GI	none	Score	80
Exons	621..800, 848..991, 849..1010		

Seq. No.	55770	Seq. ID	OJ000313_23.0419.C11
Gene No.	116836	Strand	-
Start	6227	End	6347
Name	OJ000313_23.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	949	End	1229
GI	none	Score	68
Exons	949..1074, 950..1147, 954..1229		

Seq. No.	55770	Seq. ID	OJ000313_23.0419.C11
Gene No.	116836	Strand	-
Start	6227	End	6347
Name	OJ000313_23.0419.C11.o2.gs	Method	GENSCAN
Start	6227	End	6347
GI	none	Score	.86
Exons	6227..6347		

Seq. No.	55771	Seq. ID	OJ000313_23.0419.C12
Gene No.	116837	Strand	+
Start	2016	End	2501
Name	OJ000313_23.0419.C12.o2.gs	Method	GENSCAN
Start	2016	End	2501
GI	none	Score	.5
Exons	2016..2078, 2349..2501		

Seq. No.	55771	Seq. ID	OJ000313_23.0419.C12
Gene No.	116838	Strand	-
Start	180	End	972
Name	OJ000313_23.0419.C12.o1.gs	Method	GENSCAN
Start	180	End	972
GI	none	Score	.88
Exons	180..311, 961..972		

Seq. No.	55772	Seq. ID	OJ000313_23.0419.C13
Gene No.	116839	Strand	+
Start	1	End	1689
Name	OJ000313_23.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	1689
GI	7511819	Score	44
Exons	1..38, 1381..1689		
GI Descrip.	cappuccino gene protein - fruit fly (Drosophila melanogaster) gi 1061334 gb AAC46925.1 (U34258) cappuccino [Drosophila melanogaster] gi 1584652 prf 2123320A cappuccino gene [Drosophila melanogaster]		

Seq. No.	55772	Seq. ID	OJ000313_23.0419.C13
Gene No.	116840	Strand	-
Start	1095	End	1720
Name	OJ000313_23.0419.C13.o1.gs	Method	GENSCAN
Start	1095	End	1720
GI	none	Score	.65
Exons	1095..1161, 1490..1720		

Seq. No.	55773	Seq. ID	OJ000313_23.0419.C14
Gene No.	116841	Strand	+
Start	87	End	431
Name	OJ000313_23.0419.C14.o1.gs	Method	GENSCAN

Start 87
 GI none
 Exons 87..242, 321..431

End 431
 Score .69

Seq. No. 55774
 Gene No. 116842
 Start 84
 Name OJ000313_23.0419.C16.o1.gs
 Start 84
 GI none
 Exons 84..182, 260..599

Seq. ID OJ000313_23.0419.C16
 Strand +
 End 599
 Method GENSCAN
 End 599
 Score .6

Seq. No. 55774
 Gene No. 116842
 Start 84
 Name OJ000313_23.0419.C16.o1.np
 Start 84
 GI 6815062
 Exons 84..182, 260..599

Seq. ID OJ000313_23.0419.C16
 Strand +
 End 599
 Method AAT/NAP
 End 599
 Score 696

GI Descrip. (AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza sativa]

Seq. No. 55775
 Gene No. 116843
 Start 1047
 Name OJ000313_23.0419.C18.o1.gp
 Start 1047
 GI LIB3477-003-P1-K1-E9
 Exons 1047..1146

Seq. ID OJ000313_23.0419.C18
 Strand +
 End 1146
 Method AAT/GAP
 End 1146
 Score 99

GI Descrip. '2498586/sp|Q40638|MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No. 55775
 Gene No. 116844
 Start 219
 Name OJ000313_23.0419.C18.o1.gs
 Start 219
 GI none
 Exons 219..552, 1183..1243, 1833..1904

Seq. ID OJ000313_23.0419.C18
 Strand -
 End 1904
 Method GENSCAN
 End 1904
 Score .83

Seq. No. 55776
 Gene No. 116845
 Start 609
 Name OJ000313_23.0419.C19.o1.gs
 Start 609
 GI none
 Exons 609..776

Seq. ID OJ000313_23.0419.C19
 Strand +
 End 776
 Method GENSCAN
 End 776
 Score .84

Seq. No. 55777
 Gene No. 116846
 Start 241
 Name OJ000313_23.0419.C21.o1.gp
 Start 241
 GI 1791_1.R1084
 Exons 241..581, 721..818, 929..1039, 1130..1178, 1367..1460

Seq. ID OJ000313_23.0419.C21
 Strand -
 End 1460
 Method AAT/GAP
 End 1460
 Score 1230

GI Descrip. '3292814|emb|CAA19804.1| 1.0e-71 (AL031018) putative protein [Arabidopsis thaliana]'

Seq. No.	55777	Seq. ID	OJ000313_23.0419.C21
Gene No.	116846	Strand	-
Start	241	End	1460
Name	OJ000313_23.0419.C21.ol.tm	Method	TBLASTX:Maize
Start	426	End	1446
GI	none	Score	54
Exons	426..494, 498..605, 521..583, 562..606, 718..819, 723..824, 724..819, 891..1040, 927..1010, 929..1042, 944..1042, 1127..1177, 1128..1178, 1358..1444, 1364..1444, 1381..1446, 1404..1445		

Seq. No.	55777	Seq. ID	OJ000313_23.0419.C21
Gene No.	116846	Strand	-
Start	241	End	1460
Name	OJ000313_23.0419.C21.ol.gs	Method	GENSCAN
Start	451	End	1410
GI	none	Score	.81
Exons	451..528, 929..1178, 1367..1410		

Seq. No.	55777	Seq. ID	OJ000313_23.0419.C21
Gene No.	116846	Strand	-
Start	241	End	1460
Name	OJ000313_23.0419.C21.ol.tc	Method	TBLASTX:Cress
Start	500	End	1446
GI	none	Score	63
Exons	500..568, 518..583, 726..824, 727..852, 933..1040, 944..1045, 1142..1177, 1355..1444, 1384..1446		

Seq. No.	55777	Seq. ID	OJ000313_23.0419.C21
Gene No.	116846	Strand	-
Start	241	End	1460
Name	OJ000313_23.0419.C21.ol.np	Method	AAT/NAP
Start	515	End	1460
GI	7486582	Score	393
Exons	515..581, 721..818, 929..1046, 1134..1178, 1367..1460		
GI Descrip.	hypothetical protein F7H19.70 - Arabidopsis thaliana gi 3292814 emb CAA19804.1 (AL031018) putative protein [Arabidopsis thaliana] gi 7269136 emb CAB79244.1 (AL161558) putative protein [Arabidopsis thaliana]		

Seq. No.	55777	Seq. ID	OJ000313_23.0419.C21
Gene No.	116846	Strand	-
Start	241	End	1460
Name	OJ000313_23.0419.C21.ol.ts	Method	TBLASTX:Soybean
Start	521	End	1446
GI	none	Score	113
Exons	521..583, 724..822, 726..824, 933..1037, 944..1045, 1139..1177, 1142..1177, 1354..1446, 1365..1445, 1384..1446		

Seq. No.	55778	Seq. ID	OJ000313_23.0419.C22
Gene No.	116847	Strand	-
Start	1	End	3599
Name	OJ000313_23.0419.C22.ol.gp	Method	AAT/GAP
Start	1	End	611

GI 1791 2.R1084 Score 1030
Exons 1..28, 115..611
GI Descrip. '2911040/emb|CAA17550| 1.0e-08 (AL021961) receptor protein
kinase - like protein [Arabidopsis thaliana]'

Seq. No. 55778 Seq. ID OJ000313_23.0419.C22
Gene No. 116847 Strand -
Start 1 End 3599
Name OJ000313_23.0419.C22.o1.np Method AAT/NAP
Start 1 End 503
GI 7485578 Score 243
Exons 1..28, 115..503
GI Descrip. hypothetical protein F16J13.30 - Arabidopsis thaliana
gi|4586101|emb|CAB40937.1| (AL049638) putative protein
[Arabidopsis thaliana] gi|7267897|emb|CAB78239.1| (AL161533)
putative protein [Arabidopsis thaliana]

Seq. No. 55778 Seq. ID OJ000313_23.0419.C22
Gene No. 116847 Strand -
Start 1 End 3599
Name OJ000313_23.0419.C22.o2.tm Method TBLASTX:Maize
Start 53 End 307
GI none Score 155
Exons 53..145, 110..268, 115..213, 117..260, 122..205, 266..307

Seq. No. 55778 Seq. ID OJ000313_23.0419.C22
Gene No. 116847 Strand -
Start 1 End 3599
Name OJ000313_23.0419.C22.o1.tc Method TBLASTX:Cress
Start 113 End 316
GI none Score 76
Exons 113..268, 114..266, 266..316

Seq. No. 55778 Seq. ID OJ000313_23.0419.C22
Gene No. 116847 Strand -
Start 1 End 3599
Name OJ000313_23.0419.C22.o1.ts Method TBLASTX:Soybean
Start 113 End 319
GI none Score 87
Exons 113..268, 114..263, 263..319

Seq. No. 55778 Seq. ID OJ000313_23.0419.C22
Gene No. 116847 Strand -
Start 1 End 3599
Name OJ000313_23.0419.C22.o1.gs Method GENSCAN
Start 115 End 3549
GI none Score .71
Exons 115..568, 938..972, 1831..1958, 2361..2401, 2609..2683,
3436..3549

Seq. No. 55778 Seq. ID OJ000313_23.0419.C22
Gene No. 116847 Strand -
Start 1 End 3599
Name OJ000313_23.0419.C22.o2.gp Method AAT/GAP
Start 1300 End 1640
GI 427813 Score 623
Exons 1300..1640

Seq. No.	55778	Seq. ID	OJ000313_23.0419.C22
Gene No.	116847	Strand	-
Start	1	End	3599
Name	OJ000313_23.0419.C22.o3.gp	Method	AAT/GAP
Start	2339	End	3588
GI	3763862	Score	932
Exons	2339..2683, 3436..3588		
GI Descrip.	2911040 emb CAA17550 1.0e-08 (AL021961) receptor protein kinase - like protein [Arabidopsis thaliana]		

Seq. No.	55778	Seq. ID	OJ000313_23.0419.C22
Gene No.	116847	Strand	-
Start	1	End	3599
Name	OJ000313_23.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	2479	End	3576
GI	none	Score	167
Exons	2479..2622, 2480..2695, 2481..2699, 2481..2687, 2495..2695, 3434..3559, 3435..3548, 3436..3576, 3451..3576		

Seq. No.	55778	Seq. ID	OJ000313_23.0419.C22
Gene No.	116847	Strand	-
Start	1	End	3599
Name	OJ000313_23.0419.C22.o2.np	Method	AAT/NAP
Start	3409	End	3599
GI	7488258	Score	118
Exons	3409..3599		
GI Descrip.	protein kinase homolog F28A23.20 - Arabidopsis thaliana gi 2911040 emb CAA17550.1 (AL021961) receptor protein kinase-like protein [Arabidopsis thaliana] gi 7270372 emb CAB80139.1 (AL161585) receptor protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	55779	Seq. ID	OJ000313_23.0419.C23
Gene No.	116848	Strand	+
Start	326	End	2218
Name	OJ000313_23.0419.C23.o1.gs	Method	GENSCAN
Start	326	End	2218
GI	none	Score	.65
Exons	326..524, 936..1087, 1755..1910, 2025..2218		

Seq. No.	55779	Seq. ID	OJ000313_23.0419.C23
Gene No.	116849	Strand	+
Start	3071	End	4058
Name	OJ000313_23.0419.C23.o2.gp	Method	AAT/GAP
Start	2937	End	3248
GI	701261	Score	533
Exons	2937..3248		

Seq. No.	55779	Seq. ID	OJ000313_23.0419.C23
Gene No.	116849	Strand	+
Start	3071	End	4058
Name	OJ000313_23.0419.C23.o2.gs	Method	GENSCAN
Start	3071	End	3871
GI	none	Score	.98
Exons	3071..3871		

Seq. No.	55779	Seq. ID	OJ000313_23.0419.C23
Gene No.	116849	Strand	+
Start	3071	End	4058
Name	OJ000313_23.0419.C23.o1.np	Method	AAT/NAP
Start	3153	End	3703
GI	7488258	Score	398
Exons	3153..3703		

GI Descrip. protein kinase homolog F28A23.20 - Arabidopsis thaliana
gi|2911040|emb|CAA17550.1| (AL021961) receptor protein
kinase-like protein [Arabidopsis thaliana]
gi|7270372|emb|CAB80139.1| (AL161585) receptor protein
kinase-like protein [Arabidopsis thaliana]

Seq. No.	55779	Seq. ID	OJ000313_23.0419.C23
Gene No.	116849	Strand	+
Start	3071	End	4058
Name	OJ000313_23.0419.C23.o3.gp	Method	AAT/GAP
Start	3433	End	4058
GI	42443_1.R1084	Score	1185
Exons	3433..4058		

GI Descrip. '2911040/emb|CAA17550| 1.0e-08 (AL021961) receptor protein
kinase - like protein [Arabidopsis thaliana]'

Seq. No.	55779	Seq. ID	OJ000313_23.0419.C23
Gene No.	116850	Strand	-
Start	1	End	74
Name	OJ000313_23.0419.C23.o1.gp	Method	AAT/GAP
Start	1	End	74
GI	4968847	Score	144
Exons	1..74		

GI Descrip. 2911040/emb|CAA17550| 2.0e-23 (AL021961) receptor protein kinase
- like protein [Arabidopsis thaliana]

Seq. No.	55779	Seq. ID	OJ000313_23.0419.C23
Gene No.	116851	Strand	
Start	3163	End	3816
Name	OJ000313_23.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	3163	End	3814
GI	none	Score	65
Exons	3163..3216, 3164..3208, 3223..3378, 3224..3382, 3400..3489, 3401..3481, 3551..3703, 3554..3682, 3700..3783, 3701..3814		

Seq. No.	55779	Seq. ID	OJ000313_23.0419.C23
Gene No.	116851	Strand	
Start	3163	End	3816
Name	OJ000313_23.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	3164	End	3751
GI	none	Score	65
Exons	3164..3208, 3223..3489, 3224..3481, 3550..3696, 3551..3697, 3707..3751		

Seq. No.	55779	Seq. ID	OJ000313_23.0419.C23
Gene No.	116851	Strand	
Start	3163	End	3816
Name	OJ000313_23.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	3203	End	3382
GI	none	Score	278

Exons 3203..3382, 3203..3364, 3205..3378

Seq. No.	55779	Seq. ID	OJ000313_23.0419.C23
Gene No.	116851	Strand	
Start	3163	End	3816
Name	OJ000313_23.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	3406	End	3796
GI	none	Score	88
Exons	3406..3489, 3407..3481, 3550..3783, 3551..3796		

Seq. No.	55779	Seq. ID	OJ000313_23.0419.C23
Gene No.	116851	Strand	
Start	3163	End	3816
Name	OJ000313_23.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	3550	End	3816
GI	none	Score	341
Exons	3550..3816, 3551..3814		

Seq. No.	55780	Seq. ID	OJ000313_23.0419.C24
Gene No.	116852	Strand	-
Start	2123	End	2431
Name	OJ000313_23.0419.C24.o1.gs	Method	GENSCAN
Start	2123	End	2431
GI	none	Score	.75
Exons	2123..2431		

Seq. No.	55780	Seq. ID	OJ000313_23.0419.C24
Gene No.	116852	Strand	-
Start	2123	End	2431
Name	OJ000313_23.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	2129	End	2379
GI	none	Score	173
Exons	2129..2359, 2208..2336, 2301..2378, 2317..2379		

Seq. No.	55780	Seq. ID	OJ000313_23.0419.C24
Gene No.	116852	Strand	-
Start	2123	End	2431
Name	OJ000313_23.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	2132	End	2356
GI	none	Score	178
Exons	2132..2356, 2208..2342		

Seq. No.	55780	Seq. ID	OJ000313_23.0419.C24
Gene No.	116852	Strand	-
Start	2123	End	2431
Name	OJ000313_23.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	2141	End	2359
GI	none	Score	89
Exons	2141..2359, 2208..2333		

Seq. No.	55781	Seq. ID	OJ000313_23.0419.C25
Gene No.	116853	Strand	+
Start	4650	End	8264
Name	OJ000313_23.0419.C25.o2.gs	Method	GENSCAN
Start	4650	End	7425
GI	none	Score	.63
Exons	4650..4739, 5010..5120, 6949..7425		

Seq. No.	55781	Seq. ID	OJ000313_23.0419.C25
Gene No.	116853	Strand	+
Start	4650	End	8264
Name	OJ000313_23.0419.C25.o2.gp	Method	AAT/GAP
Start	6382	End	6573
GI	5667165	Score	356
Exons	6382..6573		
GI Descrip.	5670155/gb AF161269.1 AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence		

Seq. No.	55781	Seq. ID	OJ000313_23.0419.C25
Gene No.	116853	Strand	+
Start	4650	End	8264
Name	OJ000313_23.0419.C25.o1.np	Method	AAT/NAP
Start	6652	End	8264
GI	6907086	Score	1344
Exons	6652..7419, 7478..7716, 7941..7984, 8089..8264		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	55781	Seq. ID	OJ000313_23.0419.C25
Gene No.	116854	Strand	-
Start	1049	End	2013
Name	OJ000313_23.0419.C25.o1.gs	Method	GENSCAN
Start	1049	End	2013
GI	none	Score	.45
Exons	1049..1227, 1713..1795, 1916..2013		

Seq. No.	55781	Seq. ID	OJ000313_23.0419.C25
Gene No.	116855	Strand	-
Start	4726	End	5223
Name	OJ000313_23.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	1304	End	1793
GI	none	Score	47
Exons	1304..1381, 1309..1380, 1427..1612, 1428..1634, 1428..1613, 1606..1788, 1607..1699, 1614..1793		

Seq. No.	55781	Seq. ID	OJ000313_23.0419.C25
Gene No.	116855	Strand	-
Start	4726	End	5223
Name	OJ000313_23.0419.C25.o1.gp	Method	AAT/GAP
Start	4726	End	5223
GI	38782_1.R1084	Score	793
Exons	4726..5223		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	55782	Seq. ID	OJ000313_23.0419.C26
Gene No.	116856	Strand	+
Start	619	End	1362
Name	OJ000313_23.0419.C26.o1.gs	Method	GENSCAN
Start	619	End	1362
GI	none	Score	.67
Exons	619..1362		

Seq. No.	55782	Seq. ID	OJ000313_23.0419.C26
Gene No.	116856	Strand	+

Start	619	End	1362
Name	OJ000313_23.0419.C26.o1.np	Method	AAT/NAP
Start	670	End	1321
GI	6729496	Score	717
Exons	670..1321		
GI Descrip.	(AL132966) putative protein [Arabidopsis thaliana]		

Seq. No.	55782	Seq. ID	OJ000313_23.0419.C26
Gene No.	116857	Strand	-
Start	1176	End	1593
Name	OJ000313_23.0419.C26.o1.gp	Method	AAT/GAP
Start	1176	End	1593
GI	none	Score	723
Exons	1176..1593		

Seq. No.	55782	Seq. ID	OJ000313_23.0419.C26
Gene No.	116858	Strand	-
Start	1729	End	6590
Name	OJ000313_23.0419.C26.o1.ts	Method	TBLASTX:Soybean
Start	699	End	1242
GI	none	Score	105
Exons	699..845, 700..810, 898..1242, 945..1241		

Seq. No.	55782	Seq. ID	OJ000313_23.0419.C26
Gene No.	116858	Strand	-
Start	1729	End	6590
Name	OJ000313_23.0419.C26.o1.tw	Method	TBLASTX:Wheat
Start	783	End	1188
GI	none	Score	89
Exons	783..860, 832..936, 836..910, 943..1146, 943..1071, 945..1145, 1147..1188		

Seq. No.	55782	Seq. ID	OJ000313_23.0419.C26
Gene No.	116858	Strand	-
Start	1729	End	6590
Name	OJ000313_23.0419.C26.o2.tm	Method	TBLASTX:Maize
Start	838	End	1293
GI	none	Score	407
Exons	838..1071, 898..1293, 945..1241		

Seq. No.	55782	Seq. ID	OJ000313_23.0419.C26
Gene No.	116858	Strand	-
Start	1729	End	6590
Name	OJ000313_23.0419.C26.o2.tc	Method	TBLASTX:Cress
Start	987	End	1269
GI	none	Score	359
Exons	987..1265, 988..1269		

Seq. No.	55782	Seq. ID	OJ000313_23.0419.C26
Gene No.	116858	Strand	-
Start	1729	End	6590
Name	OJ000313_23.0419.C26.o2.gs	Method	GENSCAN
Start	1729	End	6550
GI	none	Score	.7
Exons	1729..1842, 5601..5756, 5777..5908, 5986..6123, 6204..6311, 6440..6550		

Seq. No.	55782	Seq. ID	OJ000313_23.0419.C26
Gene No.	116858	Strand	-
Start	1729	End	6590
Name	OJ000313_23.0419.C26.o3.tm	Method	TBLASTX:Maize
Start	4759	End	5282
GI	none	Score	45
Exons	4759..4887, 4864..4914, 4980..5075, 4981..5076, 4985..5077, 4992..5093, 4994..5089, 5153..5230, 5156..5281, 5163..5282		

Seq. No.	55782	Seq. ID	OJ000313_23.0419.C26
Gene No.	116858	Strand	-
Start	1729	End	6590
Name	OJ000313_23.0419.C26.o3.gp	Method	AAT/GAP
Start	5030	End	6590
GI	8515_1.R1084	Score	1482
Exons	5030..5280, 5601..5705, 5777..5908, 5986..6123, 6204..6311, 6440..6590		
GI Descrip.	'5931694/emb CAB56597.1 1.0e-93 (Y18470) Exportin1 (XPO1) protein [Arabidopsis thaliana]'		

Seq. No.	55782	Seq. ID	OJ000313_23.0419.C26
Gene No.	116858	Strand	-
Start	1729	End	6590
Name	OJ000313_23.0419.C26.o2.np	Method	AAT/NAP
Start	5161	End	6590
GI	5931694	Score	828
Exons	5161..5280, 5601..5705, 5777..5908, 5980..6123, 6204..6311, 6440..6590		
GI Descrip.	(Y18470) Exportin1 (XPO1) protein [Arabidopsis thaliana]		

Seq. No.	55782	Seq. ID	OJ000313_23.0419.C26
Gene No.	116858	Strand	-
Start	1729	End	6590
Name	OJ000313_23.0419.C26.o2.ts	Method	TBLASTX:Soybean
Start	5596	End	6302
GI	none	Score	100
Exons	5596..5706, 5601..5711, 5765..5839, 5775..5861, 5837..5899, 5841..5900, 5982..6125, 5986..6126, 5990..6124, 6204..6302, 6205..6300		

Seq. No.	55782	Seq. ID	OJ000313_23.0419.C26
Gene No.	116858	Strand	-
Start	1729	End	6590
Name	OJ000313_23.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	5601	End	6568
GI	none	Score	158
Exons	5601..5708, 5602..5706, 5602..5715, 5603..5707, 5765..5908, 5775..5909, 5776..5910, 5784..5909, 5979..6125, 5983..6126, 5984..6124, 5984..6136, 5985..6125, 5986..6174, 6204..6314, 6211..6318, 6440..6505, 6441..6503, 6441..6509, 6442..6504, 6492..6551, 6494..6559, 6500..6568		

Seq. No.	55782	Seq. ID	OJ000313_23.0419.C26
Gene No.	116858	Strand	-
Start	1729	End	6590
Name	OJ000313_23.0419.C26.o1.tc	Method	TBLASTX:Cress
Start	5765	End	6312

GI	none	Score	96
Exons	5765..5899, 5775..5900, 5986..6132, 5990..6130, 5990..6136, 6204..6311, 6204..6311, 6205..6312, 6205..6312		

Seq. No.	55783	Seq. ID	OJ000313_23.0419.C27
Gene No.	116859	Strand	-
Start	1	End	2144
Name	OJ000313_23.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	2144
GI	7444451	Score	2339
Exons	1..2144		
GI Descrip.	probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi 2586082 gb AAB82754.1 (U72725) retrofit [Oryza longistaminata]		

Seq. No.	55783	Seq. ID	OJ000313_23.0419.C27
Gene No.	116859	Strand	-
Start	1	End	2144
Name	OJ000313_23.0419.C27.o2.ts	Method	TBLASTX:Soybean
Start	3	End	308
GI	none	Score	87
Exons	3..101, 4..102, 87..308, 97..279		

Seq. No.	55783	Seq. ID	OJ000313_23.0419.C27
Gene No.	116859	Strand	-
Start	1	End	2144
Name	OJ000313_23.0419.C27.o1.tw	Method	TBLASTX:Wheat
Start	48	End	485
GI	none	Score	216
Exons	48..485, 49..480		

Seq. No.	55783	Seq. ID	OJ000313_23.0419.C27
Gene No.	116859	Strand	-
Start	1	End	2144
Name	OJ000313_23.0419.C27.o2.tm	Method	TBLASTX:Maize
Start	90	End	351
GI	none	Score	167
Exons	90..350, 157..351		

Seq. No.	55783	Seq. ID	OJ000313_23.0419.C27
Gene No.	116859	Strand	-
Start	1	End	2144
Name	OJ000313_23.0419.C27.o1.gs	Method	GENSCAN
Start	222	End	2052
GI	none	Score	.64
Exons	222..346, 761..1035, 1191..1369, 1390..2052		

Seq. No.	55783	Seq. ID	OJ000313_23.0419.C27
Gene No.	116859	Strand	-
Start	1	End	2144
Name	OJ000313_23.0419.C27.o3.tc	Method	TBLASTX:Cress
Start	351	End	599
GI	none	Score	81
Exons	351..599, 354..599		

Seq. No.	55783	Seq. ID	OJ000313_23.0419.C27
Gene No.	116859	Strand	-

Start	1	End	2144
Name	OJ000313_23.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	420	End	866
GI	none	Score	407
Exons	420..866		
Seq. No.	55783	Seq. ID	OJ000313_23.0419.C27
Gene No.	116859	Strand	-
Start	1	End	2144
Name	OJ000313_23.0419.C27.o2.tw	Method	TBLASTX:Wheat
Start	486	End	999
GI	none	Score	69
Exons	486..662, 654..998, 775..840, 871..999		
Seq. No.	55783	Seq. ID	OJ000313_23.0419.C27
Gene No.	116859	Strand	-
Start	1	End	2144
Name	OJ000313_23.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	666	End	1165
GI	5509260	Score	45
Exons	666..1019, 691..729, 775..840, 880..1023, 1016..1165		
GI Descrip.	-		
Seq. No.	55783	Seq. ID	OJ000313_23.0419.C27
Gene No.	116859	Strand	-
Start	1	End	2144
Name	OJ000313_23.0419.C27.o2.tc	Method	TBLASTX:Cress
Start	780	End	1056
GI	none	Score	120
Exons	780..1013, 781..1008, 1010..1048, 1021..1056		
Seq. No.	55783	Seq. ID	OJ000313_23.0419.C27
Gene No.	116859	Strand	-
Start	1	End	2144
Name	OJ000313_23.0419.C27.o4.tm	Method	TBLASTX:Maize
Start	867	End	1117
GI	none	Score	105
Exons	867..1019, 868..1002, 1016..1117		
Seq. No.	55783	Seq. ID	OJ000313_23.0419.C27
Gene No.	116859	Strand	-
Start	1	End	2144
Name	OJ000313_23.0419.C27.o3.tw	Method	TBLASTX:Wheat
Start	1688	End	2073
GI	none	Score	100
Exons	1688..1993, 1735..2070, 1738..2073		
Seq. No.	55783	Seq. ID	OJ000313_23.0419.C27
Gene No.	116859	Strand	-
Start	1	End	2144
Name	OJ000313_23.0419.C27.o1.tc	Method	TBLASTX:Cress
Start	1726	End	2142
GI	none	Score	312
Exons	1726..2142		
Seq. No.	55783	Seq. ID	OJ000313_23.0419.C27
Gene No.	116859	Strand	-

Start	1	End	2144
Name	OJ000313_23.0419.C27.o3.ts	Method	TBLASTX:Soybean
Start	1744	End	2136
GI	none	Score	57
Exons	1744..2136, 1747..1872, 1811..1993		

Seq. No.	55783	Seq. ID	OJ000313_23.0419.C27
Gene No.	116859	Strand	-
Start	1	End	2144
Name	OJ000313_23.0419.C27.o3.tm	Method	TBLASTX:Maize
Start	1747	End	2070
GI	none	Score	58
Exons	1747..2070, 1796..1969		

Seq. No.	55784	Seq. ID	OJ000313_23.0419.C28
Gene No.	116860	Strand	+
Start	1146	End	2468
Name	OJ000313_23.0419.C28.o1.np	Method	AAT/NAP
Start	1143	End	2468
GI	5931694	Score	235
Exons	1143..1241, 1675..1795, 2411..2468		
GI Descrip.	(Y18470) Exportin1 (XPO1) protein [Arabidopsis thaliana]		

Seq. No.	55784	Seq. ID	OJ000313_23.0419.C28
Gene No.	116860	Strand	+
Start	1146	End	2468
Name	OJ000313_23.0419.C28.o2.gs	Method	GENSCAN
Start	1146	End	2236
GI	none	Score	.99
Exons	1146..1241, 1675..1791, 2231..2236		

Seq. No.	55784	Seq. ID	OJ000313_23.0419.C28
Gene No.	116861	Strand	-
Start	107	End	189
Name	OJ000313_23.0419.C28.o1.gs	Method	GENSCAN
Start	107	End	189
GI	none	Score	.96
Exons	107..189		

Seq. No.	55785	Seq. ID	OJ000313_23.0419.C29
Gene No.	116862	Strand	+
Start	1	End	3741
Name	OJ000313_23.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	3741
GI	5931694	Score	1609
Exons	1..175, 243..325, 466..604, 694..762, 991..1068, 1179..1238, 1350..1394, 1673..1780, 1863..1975, 2144..2327, 2459..2518, 2907..3017, 3154..3251, 3328..3436, 3693..3741		
GI Descrip.	(Y18470) Exportin1 (XPO1) protein [Arabidopsis thaliana]		

Seq. No.	55785	Seq. ID	OJ000313_23.0419.C29
Gene No.	116862	Strand	+
Start	1	End	3741
Name	OJ000313_23.0419.C29.o1.gs	Method	GENSCAN
Start	243	End	3436
GI	none	Score	.87
Exons	243..325, 466..604, 694..762, 991..1068, 1179..1238, 1673..1780,		

2127..2327, 2459..2518, 3154..3251, 3328..3436

Seq. No.	55785	Seq. ID	OJ000313_23.0419.C29
Gene No.	116862	Strand	+
Start	1	End	3741
Name	OJ000313_23.0419.C29.ol.tc	Method	TBLASTX:Cress
Start	290	End	1068
GI	none	Score	101
Exons	290..328, 438..602, 454..603, 454..618, 458..607, 459..617, 461..619, 693..764, 694..765, 978..1067, 988..1068		

Seq. No.	55785	Seq. ID	OJ000313_23.0419.C29
Gene No.	116862	Strand	+
Start	1	End	3741
Name	OJ000313_23.0419.C29.ol.gp	Method	AAT/GAP
Start	484	End	765
GI	uC-osflM202077d02b1	Score	339
Exons	484..604, 694..765		
GI Descrip.	'5931694/emb CAB56597.1 2.0e-18 (Y18470) Exportin1 (XPO1) protein [Arabidopsis thaliana]'		

Seq. No.	55785	Seq. ID	OJ000313_23.0419.C29
Gene No.	116862	Strand	+
Start	1	End	3741
Name	OJ000313_23.0419.C29.ol.ts	Method	TBLASTX:Soybean
Start	2904	End	3740
GI	none	Score	192
Exons	2904..3017, 2904..3017, 2905..3018, 2906..3019, 2906..3019, 3151..3252, 3153..3254, 3323..3436, 3325..3429, 3329..3436, 3690..3740		

Seq. No.	55786	Seq. ID	OJ000313_23.0419.C30
Gene No.	116863	Strand	+
Start	1	End	731
Name	OJ000313_23.0419.C30.ol.np	Method	AAT/NAP
Start	1	End	731
GI	6815062	Score	1059
Exons	1..731		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza sativa]		

Seq. No.	55787	Seq. ID	OJ000303_28.0419.C2
Gene No.	116864	Strand	+
Start	604	End	2475
Name	OJ000303_28.0419.C2.ol.gs	Method	GENSCAN
Start	604	End	2475
GI	none	Score	.79
Exons	604..741, 880..2475		

Seq. No.	55787	Seq. ID	OJ000303_28.0419.C2
Gene No.	116864	Strand	+
Start	604	End	2475
Name	OJ000303_28.0419.C2.ol.gp	Method	AAT/GAP
Start	1172	End	1618
GI	none	Score	817
Exons	1172..1618		

Seq. No.	55787	Seq. ID	OJ000303_28.0419.C2
Gene No.	116865	Strand	-
Start	4320	End	4830
Name	OJ000303_28.0419.C2.o2.gp	Method	AAT/GAP
Start	4320	End	4830
GI	none	Score	875
Exons	4320..4830		

Seq. No.	55787	Seq. ID	OJ000303_28.0419.C2
Gene No.	116866	Strand	-
Start	6944	End	7369
Name	OJ000303_28.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	1686	End	2280
GI	none	Score	50
Exons	1686..1769, 1693..1740, 1723..1770, 1816..1989, 1818..1991, 1990..2109, 1998..2108, 2014..2109, 2170..2280, 2190..2279		

Seq. No.	55787	Seq. ID	OJ000303_28.0419.C2
Gene No.	116866	Strand	-
Start	6944	End	7369
Name	OJ000303_28.0419.C2.o3.gp	Method	AAT/GAP
Start	6944	End	7369
GI	33332.1.R1084	Score	826
Exons	6944..7369		
GI Descrip.	'2624325/emb AJ002893 OSAJ2893 1.0e-121 Oryza sativa mRNA for glycine-rich RNA-binding protein (OsGRP1)'		

Seq. No.	55788	Seq. ID	OJ000303_28.0419.C3
Gene No.	116867	Strand	-
Start	1	End	3181
Name	OJ000303_28.0419.C3.o1.gp	Method	AAT/GAP
Start	1	End	1659
GI	33332.1.R1084	Score	898
Exons	1..137, 355..434, 657..769, 1388..1503, 1590..1659		
GI Descrip.	'2624325/emb AJ002893 OSAJ2893 1.0e-121 Oryza sativa mRNA for glycine-rich RNA-binding protein (OsGRP1)'		

Seq. No.	55788	Seq. ID	OJ000303_28.0419.C3
Gene No.	116867	Strand	-
Start	1	End	3181
Name	OJ000303_28.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	2988
GI	7500725	Score	401
Exons	1..140, 361..434, 654..769, 1388..1503, 1590..1658, 1767..1836, 2139..2270, 2571..2653, 2738..2788, 2931..2988		
GI Descrip.	hypothetical protein F37C4.6 - Caenorhabditis elegans gi 2749982 gb AAB95172.1 (AF036705) Similar to phytoene desaturase; coded for by C. elegans cDNA CEESX74F; coded for by C. elegans cDNA yk303f4.3; coded for by C. elegans cDNA yk257d4.3; coded for by C. elegans cDNA yk303f4.5; coded for by C. elegans cDNA yk257d4.5; coded for >		

Seq. No.	55788	Seq. ID	OJ000303_28.0419.C3
Gene No.	116867	Strand	-
Start	1	End	3181
Name	OJ000303_28.0419.C3.o1.gs	Method	GENSCAN

Start	17	End	3181
GI	none	Score	.64
Exons	17..176, 355..434, 657..769, 1388..1471, 1582..1658, 1767..1841, 1919..1963, 2738..2788, 3104..3181		

Seq. No.	55788	Seq. ID	OJ000303_28.0419.C3
Gene No.	116867	Strand	-
Start	1	End	3181
Name	OJ000303_28.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	99	End	3161
GI	none	Score	150
Exons	99..140, 653..772, 656..772, 658..777, 1383..1439, 1388..1441, 1389..1445, 1390..1446, 1390..1452, 1449..1502, 1450..1503, 1450..1503, 1579..1659, 1581..1664, 1759..1842, 1766..1843, 1892..1966, 1913..1963, 2180..2269, 2180..2269, 2181..2270, 2563..2652, 2565..2654, 2566..2655, 2567..2653, 2729..2791, 2730..2786, 2907..2984, 2919..2987, 2920..2988, 3097..3141, 3102..3161, 3103..3153		

Seq. No.	55789	Seq. ID	OJ000303_28.0419.C4
Gene No.	116868	Strand	-
Start	165	End	3387
Name	OJ000303_28.0419.C4.o1.gs	Method	GENSCAN
Start	165	End	3387
GI	none	Score	.91
Exons	165..575, 1563..1604, 3358..3387		

Seq. No.	55789	Seq. ID	OJ000303_28.0419.C4
Gene No.	116868	Strand	-
Start	165	End	3387
Name	OJ000303_28.0419.C4.o1.np	Method	AAT/NAP
Start	169	End	410
GI	7500725	Score	193
Exons	169..410		
GI Descrip.	hypothetical protein F37C4.6 - Caenorhabditis elegans gi 2749982 gb AAB95172.1 (AF036705) Similar to phytoene desaturase; coded for by C. elegans cDNA CEESX74F; coded for by C. elegans cDNA yk303f4.3; coded for by C. elegans cDNA yk257d4.3; coded for by C. elegans cDNA yk303f4.5; coded for by C. elegans cDNA yk257d4.5; coded for >		

Seq. No.	55790	Seq. ID	OJ000303_28.0419.C5
Gene No.	116869	Strand	+
Start	16	End	859
Name	OJ000303_28.0419.C5.o1.gs	Method	GENSCAN
Start	16	End	617
GI	none	Score	1
Exons	16..129, 243..617		

Seq. No.	55790	Seq. ID	OJ000303_28.0419.C5
Gene No.	116869	Strand	+
Start	16	End	859
Name	OJ000303_28.0419.C5.o1.np	Method	AAT/NAP
Start	16	End	614
GI	7439984	Score	875
Exons	16..614		
GI Descrip.	glycine-rich protein - rice gi 2196542 gb AAB61213.1 (AF001894)		

glycine-rich protein [Oryza sativa]

Seq. No.	55790	Seq. ID	OJ000303_28.0419.C5
Gene No.	116869	Strand	+
Start	16	End	859
Name	OJ000303_28.0419.C5.o1.gp	Method	AAT/GAP
Start	453	End	859
GI	5900719	Score	754
Exons	453..859		
GI Descrip.	2624325/emb AJ002893 OSAJ2893 1.0e-121 Oryza sativa mRNA for glycine-rich RNA-binding protein (OsGRP1)		

Seq. No.	55790	Seq. ID	OJ000303_28.0419.C5
Gene No.	116870	Strand	-
Start	1160	End	1529
Name	OJ000303_28.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	4	End	379
GI	none	Score	187
Exons	4..132, 15..128, 152..379, 240..377, 242..379		

Seq. No.	55790	Seq. ID	OJ000303_28.0419.C5
Gene No.	116870	Strand	-
Start	1160	End	1529
Name	OJ000303_28.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	13	End	386
GI	none	Score	159
Exons	13..132, 15..128, 218..385, 240..386		

Seq. No.	55790	Seq. ID	OJ000303_28.0419.C5
Gene No.	116870	Strand	-
Start	1160	End	1529
Name	OJ000303_28.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	13	End	386
GI	none	Score	150
Exons	13..132, 15..131, 218..385, 240..386		

Seq. No.	55790	Seq. ID	OJ000303_28.0419.C5
Gene No.	116870	Strand	-
Start	1160	End	1529
Name	OJ000303_28.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	27	End	386
GI	none	Score	136
Exons	27..128, 28..132, 218..385, 240..386		

Seq. No.	55790	Seq. ID	OJ000303_28.0419.C5
Gene No.	116870	Strand	-
Start	1160	End	1529
Name	OJ000303_28.0419.C5.o2.gp	Method	AAT/GAP
Start	1160	End	1529
GI	3767004	Score	719
Exons	1160..1529		

Seq. No.	55791	Seq. ID	OJ000303_28.0419.C6
Gene No.	116871	Strand	-
Start	1	End	1188
Name	OJ000303_28.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	1188

GI 4309728 Score 159
 Exons 1..30, 726..943, 1121..1188
 GI Descrip. (AC006439) putative ADP-ribosylation factor [Arabidopsis thaliana]

Seq. No. 55791 Seq. ID OJ000303_28.0419.C6
 Gene No. 116872 Strand -
 Start 3613 End 3738
 Name OJ000303_28.0419.C6.o2.gs Method GENSCAN
 Start 3613 End 3738
 GI none Score .76
 Exons 3613..3738

Seq. No. 55791 Seq. ID OJ000303_28.0419.C6
 Gene No. 116873 Strand -
 Start 5499 End 5596
 Name OJ000303_28.0419.C6.o1.gp Method AAT/GAP
 Start 5499 End 5596
 GI 5867_1.R1084 Score 133
 Exons 5499..5596
 GI Descrip. '464986/sp|P35132|UBC9 ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir_S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi_297884_emb_CAA78714 (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis]

Seq. No. 55792 Seq. ID OJ000303_28.0419.C7
 Gene No. 116874 Strand +
 Start 2510 End 4609
 Name OJ000303_28.0419.C7.o1.gs Method GENSCAN
 Start 2510 End 4609
 GI none Score .83
 Exons 2510..3291, 3462..3615, 4028..4609

Seq. No. 55792 Seq. ID OJ000303_28.0419.C7
 Gene No. 116875 Strand +
 Start 5050 End 5364
 Name OJ000303_28.0419.C7.o1.gp Method AAT/GAP
 Start 5050 End 5364
 GI 4715999 Score 577
 Exons 5050..5364

Seq. No. 55793 Seq. ID OJ000303_28.0419.C8
 Gene No. 116876 Strand +
 Start 1 End 2346
 Name OJ000303_28.0419.C8.o1.np Method AAT/NAP
 Start 1 End 2346
 GI 4539658 Score 86
 Exons 1..122, 228..384, 2307..2346
 GI Descrip. (AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]

Seq. No. 55793 Seq. ID OJ000303_28.0419.C8
 Gene No. 116876 Strand +
 Start 1 End 2346

Name OJ000303_28.0419.C8.o1.gs
 Start 126
 GI none
 Exons 126...266, 1734...1916

Method GENSCAN
 End 1916
 Score .42

Seq. No. 55793
 Gene No. 116876
 Start 1
 Name OJ000303_28.0419.C8.o1.tm
 Start 137
 GI none
 Exons 137...256, 137...253, 139...258, 147...266, 150...260, 151...267, 239...316, 252...371, 261...332, 262...348

Seq. ID OJ000303_28.0419.C8
 Strand +
 End 2346
 Method TBLASTX:Maize
 End 371
 Score 97

Seq. No. 55794
 Gene No. 116877
 Start 592
 Name OJ000303_28.0419.C9.o1.gs
 Start 592
 GI none
 Exons 592...657

Seq. ID OJ000303_28.0419.C9
 Strand +
 End 657
 Method GENSCAN
 End 657
 Score .81

Seq. No. 55794
 Gene No. 116878
 Start 1600
 Name OJ000303_28.0419.C9.o1.gp
 Start 1600
 GI 3763456
 Exons 1600...1758

Seq. ID OJ000303_28.0419.C9
 Strand +
 End 1758
 Method AAT/GAP
 End 1758
 Score 264

Seq. No. 55794
 Gene No. 116879
 Start 1651
 Name OJ000303_28.0419.C9.o2.gs
 Start 1651
 GI none
 Exons 1651...1695

Seq. ID OJ000303_28.0419.C9
 Strand -
 End 1695
 Method GENSCAN
 End 1695
 Score .51

Seq. No. 55795
 Gene No. 116880
 Start 6985
 Name OJ000303_28.0419.C10.o3.np
 Start 6985
 GI 5852093
 Exons 6985...7020, 8365...8515, 9577...9630
 GI Descrip. (AL117264) zwh16.1 [Oryza sativa]

Seq. ID OJ000303_28.0419.C10
 Strand +
 End 9630
 Method AAT/NAP
 End 9630
 Score 73

Seq. No. 55795
 Gene No. 116881
 Start 1877
 Name OJ000303_28.0419.C10.o1.gs
 Start 1877
 GI none
 Exons 1877...4900

Seq. ID OJ000303_28.0419.C10
 Strand -
 End 6882
 Method GENSCAN
 End 4900
 Score .83

Seq. No. 55795
 Gene No. 116881

Seq. ID OJ000303_28.0419.C10
 Strand -

Start	1877	End	6882
Name	OJ000303_28.0419.C10.o1.np	Method	AAT/NAP
Start	1880	End	5364
GI	2160189	Score	2046
Exons	1880..2164, 2243..2732, 2766..2926, 2954..4649, 5205..5364		
GI Descrip.	(AC000132) Similar to A. thaliana receptor-like protein kinase (gb RLK5_ARATH). ESTs gb ATTS0475,gb ATTS4362 come from this gene. [Arabidopsis thaliana]		

Seq. No.	55795	Seq. ID	OJ000303_28.0419.C10
Gene No.	116881	Strand	-
Start	1877	End	6882
Name	OJ000303_28.0419.C10.o3.tm	Method	TBLASTX:Maize
Start	1940	End	2365
GI	none	Score	153
Exons	1940..2134, 1941..2135, 2147..2365, 2147..2365		

Seq. No.	55795	Seq. ID	OJ000303_28.0419.C10
Gene No.	116881	Strand	-
Start	1877	End	6882
Name	OJ000303_28.0419.C10.o2.ts	Method	TBLASTX:Soybean
Start	2048	End	2572
GI	none	Score	105
Exons	2048..2197, 2192..2287, 2193..2276, 2285..2479, 2322..2462, 2522..2572, 2540..2572		

Seq. No.	55795	Seq. ID	OJ000303_28.0419.C10
Gene No.	116881	Strand	-
Start	1877	End	6882
Name	OJ000303_28.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	2130	End	4534
GI	none	Score	90
Exons	2130..2270, 2132..2272, 2318..2479, 2322..2462, 2531..2578, 2768..2908, 3131..4336, 3132..3155, 3216..3368, 3249..3356, 3255..3413, 3350..3523, 3396..3587, 3422..3592, 3455..3769, 3494..3673, 3546..3851, 3615..3896, 3621..3917, 3621..3932, 3680..3982, 3701..3874, 3773..3943, 3876..3980, 3899..4030, 4049..4348, 4067..4249, 4418..4534		

Seq. No.	55795	Seq. ID	OJ000303_28.0419.C10
Gene No.	116881	Strand	-
Start	1877	End	6882
Name	OJ000303_28.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	2150	End	2479
GI	none	Score	75
Exons	2150..2272, 2163..2276, 2315..2479, 2322..2462		

Seq. No.	55795	Seq. ID	OJ000303_28.0419.C10
Gene No.	116881	Strand	-
Start	1877	End	6882
Name	OJ000303_28.0419.C10.o1.gp	Method	AAT/GAP
Start	2492	End	2734
GI	2317564	Score	456
Exons	2492..2734		
GI Descrip.	2160189 4.0e-12 (AC000132) Similar to A. thaliana receptor-like protein kinase (gb_RLK5_ARATH). ESTs gb_ATTS0475,gb_ATTS4362 come from this gene. [Arabidopsis thaliana]		

Seq. No.	55795	Seq. ID	OJ000303_28.0419.C10
Gene No.	116881	Strand	-
Start	1877	End	6882
Name	OJ000303_28.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	2522	End	2945
GI	none	Score	117
Exons	2522..2704, 2536..2598, 2540..2662, 2556..2693, 2762..2920, 2768..2920, 2772..2945		

Seq. No.	55795	Seq. ID	OJ000303_28.0419.C10
Gene No.	116881	Strand	-
Start	1877	End	6882
Name	OJ000303_28.0419.C10.o3.ts	Method	TBLASTX:Soybean
Start	2579	End	3217
GI	none	Score	36
Exons	2579..2653, 2604..2663, 2768..2920, 2774..2920, 3131..3217		

Seq. No.	55795	Seq. ID	OJ000303_28.0419.C10
Gene No.	116881	Strand	-
Start	1877	End	6882
Name	OJ000303_28.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	3100	End	4546
GI	none	Score	35
Exons	3100..3126, 3188..3721, 3218..3469, 3248..3376, 3248..3424, 3272..3583, 3311..3592, 3311..3451, 3317..3655, 3317..3514, 3320..3586, 3329..3448, 3329..3784, 3338..3499, 3392..3664, 3401..3871, 3455..3721, 3536..4018, 3608..4036, 3627..3989, 3671..3943, 3687..3917, 3755..4228, 3759..4016, 3825..4016, 3992..4096, 4032..4082, 4043..4228, 4049..4246, 4049..4228, 4055..4240, 4118..4336, 4118..4237, 4172..4336, 4484..4546		

Seq. No.	55795	Seq. ID	OJ000303_28.0419.C10
Gene No.	116881	Strand	-
Start	1877	End	6882
Name	OJ000303_28.0419.C10.o2.np	Method	AAT/NAP
Start	3133	End	6882
GI	3157926	Score	211
Exons	3133..3666, 3814..4087, 6845..6882		
GI Descrip.	(AC002131) Strong similarity to extensin-like protein gb Z34465 from Zea mays. [Arabidopsis thaliana]		

Seq. No.	55795	Seq. ID	OJ000303_28.0419.C10
Gene No.	116881	Strand	-
Start	1877	End	6882
Name	OJ000303_28.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	3305	End	4552
GI	none	Score	67
Exons	3305..3547, 3317..3592, 3320..3673, 3392..3742, 3464..3808, 3537..3749, 3545..3688, 3554..3841, 3677..4339, 3678..4205, 3822..4031, 3977..4183, 4358..4552		

Seq. No.	55795	Seq. ID	OJ000303_28.0419.C10
Gene No.	116881	Strand	-
Start	1877	End	6882
Name	OJ000303_28.0419.C10.o2.tw	Method	TBLASTX:Wheat
Start	3320	End	4327

GI	none	Score	81
Exons	3320..3466, 3404..3625, 3404..3556, 3447..3626, 3620..3772, 3626..3784, 3627..3707, 3692..3871, 3836..4201, 4040..4246, 4121..4327		

Seq. No.	55795	Seq. ID	OJ000303_28.0419.C10
Gene No.	116881	Strand	-
Start	1877	End	6882
Name	OJ000303_28.0419.C10.o2.gp	Method	AAT/GAP
Start	3333	End	3781
GI	700182	Score	858
Exons	3333..3781		
GI Descrip.	2160189 2.0e-29 (AC000132) Similar to A. thaliana receptor-like protein kinase (gb_RLK5_ARATH). ESTs gb_ATTS0475,gb_ATTS4362 come from this gene. [Arabidopsis thaliana]		

Seq. No.	55796	Seq. ID	OJ000303_28.0419.C11
Gene No.	116882	Strand	+
Start	5069	End	6949
Name	OJ000303_28.0419.C11.o2.gp	Method	AAT/GAP
Start	5069	End	6949
GI	370 1.R1084	Score	730
Exons	5069..5198, 6136..6351, 6911..6949		
GI Descrip.	'3183079/sp Q42972 MDHG_ORYSA 0.0e+00 MALATE DEHYDROGENASE, GLYOXYSOMAL PRECURSOR >gi_1375075.dbj_BAA12870.1_ (D85763) glyoxysomal malate dehydrogenase [Oryza sativa]'		

Seq. No.	55796	Seq. ID	OJ000303_28.0419.C11
Gene No.	116882	Strand	+
Start	5069	End	6949
Name	OJ000303_28.0419.C11.o1.np	Method	AAT/NAP
Start	5127	End	6949
GI	3183079	Score	490
Exons	5127..5198, 6136..6351, 6911..6949		
GI Descrip.	MALATE DEHYDROGENASE, GLYOXYSOMAL PRECURSOR gi 1375075 dbj BAA12870.1 (D85763) glyoxysomal malate dehydrogenase [Oryza sativa]		

Seq. No.	55796	Seq. ID	OJ000303_28.0419.C11
Gene No.	116883	Strand	-
Start	2407	End	4572
Name	OJ000303_28.0419.C11.o1.gs	Method	GENSCAN
Start	2407	End	4572
GI	none	Score	.64
Exons	2407..2655, 3204..3281, 3611..3847, 4219..4572		

Seq. No.	55796	Seq. ID	OJ000303_28.0419.C11
Gene No.	116884	Strand	-
Start	6101	End	6949
Name	OJ000303_28.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	6101	End	6949
GI	none	Score	354
Exons	6101..6358, 6133..6354, 6135..6362, 6910..6948, 6910..6948, 6911..6949		

Seq. No.	55796	Seq. ID	OJ000303_28.0419.C11
Gene No.	116884	Strand	-

Start	6101	End	6949
Name	OJ000303_28.0419.C11.ol.tw	Method	TBLASTX:Wheat
Start	6133	End	6365
GI	none	Score	300
Exons	6133..6354, 6133..6363, 6135..6365		

Seq. No.	55796	Seq. ID	OJ000303_28.0419.C11
Gene No.	116884	Strand	
Start	6101	End	6949
Name	OJ000303_28.0419.C11.ol.tc	Method	TBLASTX:Cress
Start	6135	End	6949
GI	none	Score	72
Exons	6135..6353, 6168..6263, 6169..6354, 6172..6363, 6911..6949		

Seq. No.	55796	Seq. ID	OJ000303_28.0419.C11
Gene No.	116884	Strand	
Start	6101	End	6949
Name	OJ000303_28.0419.C11.ol.ts	Method	TBLASTX:Soybean
Start	6150	End	6394
GI	none	Score	310
Exons	6150..6362, 6151..6354, 6166..6363, 6170..6394		

Seq. No.	55797	Seq. ID	OJ000303_28.0419.C12
Gene No.	116885	Strand	+
Start	1	End	2841
Name	OJ000303_28.0419.C12.ol.np	Method	AAT/NAP
Start	1	End	2014
GI	3183079	Score	474
Exons	1..40, 165..248, 887..922, 1012..1101, 1194..1288, 1945..2014		
GI Descrip.	MALATE DEHYDROGENASE, GLYOXYSOMAL PRECURSOR gi 1375075 dbj BAA12870.1 (D85763) glyoxysomal malate dehydrogenase [Oryza sativa]		

Seq. No.	55797	Seq. ID	OJ000303_28.0419.C12
Gene No.	116885	Strand	+
Start	1	End	2841
Name	OJ000303_28.0419.C12.ol.tc	Method	TBLASTX:Cress
Start	132	End	2017
GI	none	Score	75
Exons	132..212, 144..209, 192..248, 206..247, 886..921, 887..922, 1011..1118, 1012..1119, 1187..1288, 1191..1289, 1194..1289, 1943..2017		

Seq. No.	55797	Seq. ID	OJ000303_28.0419.C12
Gene No.	116885	Strand	+
Start	1	End	2841
Name	OJ000303_28.0419.C12.ol.tm	Method	TBLASTX:Maize
Start	162	End	2202
GI	none	Score	129
Exons	162..248, 165..248, 182..274, 886..921, 887..922, 995..1087, 1002..1118, 1011..1103, 1012..1119, 1191..1289, 1192..1293, 1193..1291, 1935..2009, 1943..2008, 2041..2082, 2164..2202		

Seq. No.	55797	Seq. ID	OJ000303_28.0419.C12
Gene No.	116885	Strand	+
Start	1	End	2841
Name	OJ000303_28.0419.C12.ol.ts	Method	TBLASTX:Soybean

Start	164	End	2068
GI	none	Score	104
Exons	164..247, 165..248, 887..922, 1011..1106, 1011..1118, 1012..1119, 1191..1289, 1193..1288, 1942..2016, 1943..2068		

Seq. No.	55797	Seq. ID	OJ000303_28.0419.C12
Gene No.	116885	Strand	+
Start	1	End	2841
Name	OJ000303_28.0419.C12.o1.gp	Method	AAT/GAP
Start	165	End	2233
GI	370_1.R1084	Score	1084
Exons	165..248, 887..922, 1012..1101, 1194..1288, 1945..2233		
GI Descrip.	'3183079/sp Q42972 MDHG_ORYSA 0.0e+00 MALATE DEHYDROGENASE, GLYOXYSOMAL PRECURSOR >gi_1375075_dbj_BAA12870.1_ (D85763) glyoxysomal malate dehydrogenase [Oryza sativa]'		

Seq. No.	55797	Seq. ID	OJ000303_28.0419.C12
Gene No.	116885	Strand	+
Start	1	End	2841
Name	OJ000303_28.0419.C12.o1.gs	Method	GENSCAN
Start	165	End	2841
GI	none	Score	.65
Exons	165..248, 1194..1288, 1945..2013, 2421..2517, 2734..2841		

Seq. No.	55797	Seq. ID	OJ000303_28.0419.C12
Gene No.	116885	Strand	+
Start	1	End	2841
Name	OJ000303_28.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	887	End	2011
GI	none	Score	44
Exons	887..922, 1002..1115, 1012..1119, 1172..1252, 1194..1289, 1949..2011		

Seq. No.	55798	Seq. ID	OJ000303_28.0419.C14
Gene No.	116886	Strand	-
Start	400	End	1846
Name	OJ000303_28.0419.C14.o1.np	Method	AAT/NAP
Start	260	End	1351
GI	7488716	Score	263
Exons	260..331, 478..831, 1262..1351		
GI Descrip.	symbiotic ammonium transport protein SAT1 - soybean gi 3399777 gb AAC32828.1 (AF069738) symbiotic ammonium transporter; nodulin [Glycine max]		

Seq. No.	55798	Seq. ID	OJ000303_28.0419.C14
Gene No.	116886	Strand	-
Start	400	End	1846
Name	OJ000303_28.0419.C14.o1.gs	Method	GENSCAN
Start	400	End	1846
GI	none	Score	.97
Exons	400..831, 1262..1846		

Seq. No.	55799	Seq. ID	OJ000303_28.0419.C16
Gene No.	116887	Strand	+
Start	444	End	7456
Name	OJ000303_28.0419.C16.o1.gs	Method	GENSCAN
Start	444	End	7456

GI none
Exons 444..498, 7296..7456

Score .7

Seq. No. 55799
Gene No. 116888
Start 8603
Name OJ000303_28.0419.C16.o1.gp
Start 8375
GI 1632596
Exons 8375..8705, 8806..8928

Seq. ID OJ000303_28.0419.C16
Strand -
End 8949
Method AAT/GAP
End 8928
Score 742

Seq. No. 55799
Gene No. 116888
Start 8603
Name OJ000303_28.0419.C16.o1.tm
Start 8596
GI none
Exons 8596..8700, 8602..8700, 8604..8717, 8633..8707, 8803..8895, 8804..8896, 8806..8898, 8808..8897

Seq. ID OJ000303_28.0419.C16
Strand -
End 8949
Method TBLASTX:Maize
End 8898
Score 89

Seq. No. 55799
Gene No. 116888
Start 8603
Name OJ000303_28.0419.C16.o2.gs
Start 8603
GI none
Exons 8603..8705, 8806..8949

Seq. ID OJ000303_28.0419.C16
Strand -
End 8949
Method GENSCAN
End 8949
Score .9

Seq. No. 55800
Gene No. 116889
Start 111
Name OJ000303_28.0419.C17.o1.gs
Start 111
GI none
Exons 111..213, 665..726, 1234..1302, 2090..2135

Seq. ID OJ000303_28.0419.C17
Strand -
End 2135
Method GENSCAN
End 2135
Score .48

Seq. No. 55801
Gene No. 116890
Start 1
Name OJ000303_28.0419.C18.o1.np
Start 1
GI 3913236
Exons 1..87, 1607..1779
GI Descrip. G2/MITOTIC-SPECIFIC CYCLIN 2 (B-LIKE CYCLIN) (CYCOS2)
gi|1694892|emb|CAA57556| (X82036) cyclin [Oryza sativa]

Seq. ID OJ000303_28.0419.C18
Strand -
End 1779
Method AAT/NAP
End 1779
Score 89

Seq. No. 55801
Gene No. 116891
Start 1699
Name OJ000303_28.0419.C18.o1.gp
Start 1699
GI 286374
Exons 1699..1949, 2410..2489

Seq. ID OJ000303_28.0419.C18
Strand -
End 2489
Method AAT/GAP
End 2489
Score 618

Seq. No. 55801
Gene No. 116892
Start 6024

Seq. ID OJ000303_28.0419.C18
Strand -
End 8030

Name	OJ000303_28.0419.C18.o2.np	Method	AAT/NAP
Start	6024	End	7982
GI	4544462	Score	495
Exons	6024..6334, 6486..6515, 6760..6896, 6930..7072, 7789..7982		
GI Descrip.	(AC006580) NAM (no apical meristem)-like protein [Arabidopsis thaliana]		

Seq. No.	55801	Seq. ID	OJ000303_28.0419.C18
Gene No.	116892	Strand	-
Start	6024	End	8030
Name	OJ000303_28.0419.C18.o2.gs	Method	GENSCAN
Start	6670	End	8030
GI	none	Score	.69
Exons	6670..7127, 7790..8030		

Seq. No.	55801	Seq. ID	OJ000303_28.0419.C18
Gene No.	116893	Strand	-
Start	9299	End	10842
Name	OJ000303_28.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	6745	End	7044
GI	none	Score	74
Exons	6745..6888, 6775..6897, 6940..7044, 6950..7015		

Seq. No.	55801	Seq. ID	OJ000303_28.0419.C18
Gene No.	116893	Strand	-
Start	9299	End	10842
Name	OJ000303_28.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	6781	End	7041
GI	none	Score	63
Exons	6781..6897, 6802..6888, 6940..7041, 6944..7039		

Seq. No.	55801	Seq. ID	OJ000303_28.0419.C18
Gene No.	116893	Strand	-
Start	9299	End	10842
Name	OJ000303_28.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	6793	End	7925
GI	none	Score	72
Exons	6793..6888, 6928..7041, 6929..7039, 7114..7212, 7785..7925		

Seq. No.	55801	Seq. ID	OJ000303_28.0419.C18
Gene No.	116893	Strand	-
Start	9299	End	10842
Name	OJ000303_28.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	6985	End	7946
GI	none	Score	102
Exons	6985..7041, 7789..7884, 7790..7942, 7791..7946		

Seq. No.	55801	Seq. ID	OJ000303_28.0419.C18
Gene No.	116893	Strand	-
Start	9299	End	10842
Name	OJ000303_28.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	7798	End	7946
GI	none	Score	95
Exons	7798..7932, 7798..7893, 7800..7946		

Seq. No.	55801	Seq. ID	OJ000303_28.0419.C18
Gene No.	116893	Strand	-

Start	9299	End	10842
Name	OJ000303_28.0419.C18.o3.gs	Method	GENSCAN
Start	9299	End	10842
GI	none	Score	.87
Exons	9299..9380, 10133..10265, 10749..10842		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
Gene No.	116894	Strand	+
Start	726	End	3732
Name	OJ000303_28.0419.C19.o1.gp	Method	AAT/GAP
Start	506	End	3732
GI	10926_1.R1084	Score	2114
Exons	506..767, 1031..1108, 1204..1371, 2231..2279, 2481..2554, 3089..3182, 3321..3732		
GI Descrip.	'4741844/gb AAD28731.1 AF112964_1 4.0e-86 (AF112964) small GTP-binding protein [Triticum aestivum]'		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
Gene No.	116894	Strand	+
Start	726	End	3732
Name	OJ000303_28.0419.C19.o1.np	Method	AAT/NAP
Start	711	End	3427
GI	4741844	Score	741
Exons	711..767, 1031..1108, 1204..1371, 2231..2279, 2481..2554, 3089..3182, 3321..3427		
GI Descrip.	(AF112964) small GTP-binding protein [Triticum aestivum]		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
Gene No.	116894	Strand	+
Start	726	End	3732
Name	OJ000303_28.0419.C19.o1.gs	Method	GENSCAN
Start	726	End	3574
GI	none	Score	.68
Exons	726..767, 881..1108, 1204..1371, 2231..2279, 2481..2554, 3089..3182, 3213..3400, 3434..3574		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
Gene No.	116895	Strand	+
Start	7486	End	8322
Name	OJ000303_28.0419.C19.o3.gs	Method	GENSCAN
Start	7486	End	8322
GI	none	Score	.71
Exons	7486..7788, 7981..8322		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
Gene No.	116896	Strand	-
Start	4157	End	8443
Name	OJ000303_28.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	664	End	3545
GI	none	Score	37
Exons	664..768, 673..741, 730..768, 1024..1110, 1031..1108, 1031..1129, 1189..1377, 1203..1370, 1263..1385, 2229..2279, 2230..2280, 2231..2284, 2240..2284, 2478..2552, 2479..2556, 2480..2554, 2480..2575, 3088..3180, 3089..3187, 3319..3426, 3321..3431, 3460..3489, 3528..3545, 3529..3543		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
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Gene No.	116896	Strand	-
Start	4157	End	8443
Name	OJ000303_28.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	1019	End	1377
GI	none	Score	67
Exons	1019..1114, 1206..1298, 1207..1377		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
Gene No.	116896	Strand	-
Start	4157	End	8443
Name	OJ000303_28.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	1030	End	3187
GI	none	Score	115
Exons	1030..1104, 1031..1108, 1040..1108, 1184..1363, 1189..1377, 1203..1364, 2227..2286, 2243..2287, 2479..2556, 2480..2575, 3058..3180, 3086..3187		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
Gene No.	116896	Strand	-
Start	4157	End	8443
Name	OJ000303_28.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	1030	End	3187
GI	none	Score	116
Exons	1030..1104, 1031..1108, 1189..1377, 1203..1364, 1225..1371, 2230..2286, 2240..2287, 2479..2556, 2480..2554, 3079..3180, 3086..3187		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
Gene No.	116896	Strand	-
Start	4157	End	8443
Name	OJ000303_28.0419.C19.o2.gp	Method	AAT/GAP
Start	4157	End	5801
GI	32126_1.R1084	Score	1471
Exons	4157..4575, 5415..5801		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
Gene No.	116896	Strand	-
Start	4157	End	8443
Name	OJ000303_28.0419.C19.o2.gs	Method	GENSCAN
Start	4191	End	7228
GI	none	Score	.6
Exons	4191..4575, 5415..5787, 5806..6163, 6896..7228		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
Gene No.	116896	Strand	-
Start	4157	End	8443
Name	OJ000303_28.0419.C19.o2.np	Method	AAT/NAP
Start	4191	End	8267
GI	7487075	Score	1171
Exons	4191..4575, 5415..6163, 6830..7174, 8208..8267		
GI Descrip.	hypoetical protein T16H5.30 - Arabidopsis thaliana gi 3250676 emb CAA19684.1 (AL024486) putative protein [Arabidopsis thaliana] gi 7268763 emb CAB78969.1 (AL161551) putative protein [Arabidopsis thaliana]		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
Gene No.	116896	Strand	-
Start	4157	End	8443
Name	OJ000303_28.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	4468	End	5801
GI	none	Score	143
Exons	4468..4581, 4497..4574, 5404..5796, 5410..5796, 5412..5801, 5495..5800, 5724..5801		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
Gene No.	116896	Strand	-
Start	4157	End	8443
Name	OJ000303_28.0419.C19.o2.ts	Method	TBLASTX:Soybean
Start	5450	End	5671
GI	none	Score	93
Exons	5450..5653, 5490..5669, 5495..5671		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
Gene No.	116896	Strand	-
Start	4157	End	8443
Name	OJ000303_28.0419.C19.o2.tc	Method	TBLASTX:Cress
Start	5801	End	5986
GI	none	Score	72
Exons	5801..5986, 5802..5921		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
Gene No.	116896	Strand	-
Start	4157	End	8443
Name	OJ000303_28.0419.C19.o3.tm	Method	TBLASTX:Maize
Start	7040	End	7472
GI	none	Score	59
Exons	7040..7096, 7041..7097, 7055..7189, 7084..7188, 7088..7192, 7291..7338, 7296..7340, 7370..7432, 7393..7422, 7413..7472, 7433..7471		

Seq. No.	55802	Seq. ID	OJ000303_28.0419.C19
Gene No.	116896	Strand	-
Start	4157	End	8443
Name	OJ000303_28.0419.C19.o3.gp	Method	AAT/GAP
Start	7650	End	8443
GI	701549	Score	635
Exons	7650..7807, 8235..8443		

Seq. No.	55803	Seq. ID	OJ000303_28.0419.C20
Gene No.	116897	Strand	+
Start	1867	End	5243
Name	OJ000303_28.0419.C20.o1.gs	Method	GENSCAN
Start	1867	End	5243
GI	none	Score	.6
Exons	1867..2166, 3045..3351, 3357..4137, 4148..4238, 4389..4470, 5122..5243		

Seq. No.	55803	Seq. ID	OJ000303_28.0419.C20
Gene No.	116897	Strand	+
Start	1867	End	5243
Name	OJ000303_28.0419.C20.o1.np	Method	AAT/NAP
Start	3396	End	4276

GI 6907106 Score 460
 Exons 3396..4012, 4085..4276
 GI Descrip. (AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 55803 Seq. ID OJ000303_28.0419.C20
 Gene No. 116897 Strand +
 Start 1867 End 5243
 Name OJ000303_28.0419.C20.o1.tm Method TBLASTX:Maize
 Start 3824 End 4198
 GI none Score 95
 Exons 3824..3937, 3832..3945, 3835..3930, 3843..4031, 3845..4177, 3846..4034, 3974..4198, 3996..4022, 4124..4177, 4138..4179

Seq. No. 55804 Seq. ID OJ000303_28.0419.C21
 Gene No. 116898 Strand -
 Start 1 End 719
 Name OJ000303_28.0419.C21.o1.np Method AAT/NAP
 Start 1 End 719
 GI 7523517 Score 178
 Exons 1..66, 294..349, 502..719
 GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. No. 55805 Seq. ID OJ000303_28.0419.C24
 Gene No. 116899 Strand -
 Start 79 End 425
 Name OJ000303_28.0419.C24.o1.gp Method AAT/GAP
 Start 79 End 425
 GI none Score 625
 Exons 79..425

Seq. No. 55805 Seq. ID OJ000303_28.0419.C24
 Gene No. 116900 Strand -
 Start 868 End 1077
 Name OJ000303_28.0419.C24.o1.gs Method GENSCAN
 Start 868 End 1077
 GI none Score .42
 Exons 868..1077

Seq. No. 55806 Seq. ID OJ000303_28.0419.C25
 Gene No. 116901 Strand -
 Start 246 End 408
 Name OJ000303_28.0419.C25.o1.gs Method GENSCAN
 Start 246 End 408
 GI none Score .43
 Exons 246..408

Seq. No. 55807 Seq. ID OJ000313_29.0419.C4
 Gene No. 116902 Strand +
 Start 665 End 755
 Name OJ000313_29.0419.C4.o1.gs Method GENSCAN
 Start 665 End 755
 GI none Score .61
 Exons 665..755

Seq. No. 55807 Seq. ID OJ000313_29.0419.C4
 Gene No. 116903 Strand -

Start	47	End	567
Name	OJ000313_29.0419.C4.o1.gp	Method	AAT/GAP
Start	47	End	567
GI	LIB3434-038-P1-K1-F1	Score	765
Exons	47..567		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	55808	Seq. ID	OJ000313_29.0419.C5
Gene No.	116904	Strand	+
Start	1	End	8191
Name	OJ000313_29.0419.C5.o2.np	Method	AAT/NAP
Start	1	End	8191
GI	5852180	Score	492
Exons	1..60, 1423..1476, 2460..2578, 2630..3042, 8089..8191		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	55808	Seq. ID	OJ000313_29.0419.C5
Gene No.	116904	Strand	+
Start	1	End	8191
Name	OJ000313_29.0419.C5.o2.gs	Method	GENSCAN
Start	2655	End	3092
GI	none	Score	.99
Exons	2655..3092		

Seq. No.	55808	Seq. ID	OJ000313_29.0419.C5
Gene No.	116905	Strand	-
Start	33	End	8251
Name	OJ000313_29.0419.C5.o1.np	Method	AAT/NAP
Start	33	End	8251
GI	4680183	Score	201
Exons	33..122, 729..799, 8167..8251		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	55808	Seq. ID	OJ000313_29.0419.C5
Gene No.	116905	Strand	-
Start	33	End	8251
Name	OJ000313_29.0419.C5.o1.gp	Method	AAT/GAP
Start	1325	End	1706
GI	uC-osflcyp033a04b1	Score	655
Exons	1325..1706		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	55808	Seq. ID	OJ000313_29.0419.C5
Gene No.	116905	Strand	-
Start	33	End	8251
Name	OJ000313_29.0419.C5.o3.np	Method	AAT/NAP
Start	2635	End	4741
GI	5732634	Score	277
Exons	2635..3279, 3760..4045, 4611..4741		
GI Descrip.	(AF121009) hypothetical protein Jv0534 [Mycobacterium tuberculosis H37Rv]		

Seq. No.	55808	Seq. ID	OJ000313_29.0419.C5
Gene No.	116905	Strand	-
Start	33	End	8251

Name	OJ000313_29.0419.C5.o3.gs	Method	GENSCAN
Start	3718	End	8096
GI	none	Score	.4
Exons	3718..4162, 4225..4353, 4666..4864, 6167..6387, 6427..6787, 7384..7579, 7662..7967, 8074..8096		

Seq. No.	55808	Seq. ID	OJ000313_29.0419.C5
Gene No.	116905	Strand	-
Start	33	End	8251
Name	OJ000313_29.0419.C5.o4.np	Method	AAT/NAP
Start	5477	End	8251
GI	4680209	Score	469
Exons	5477..5505, 6647..7108, 7354..7442, 7657..7924, 8228..8251		
GI Descrip.	(AF114171) unknown [Sorghum bicolor]		

Seq. No.	55808	Seq. ID	OJ000313_29.0419.C5
Gene No.	116905	Strand	-
Start	33	End	8251
Name	OJ000313_29.0419.C5.o5.np	Method	AAT/NAP
Start	6089	End	7973
GI	6721515	Score	394
Exons	6089..6563, 7260..7558, 7716..7973		
GI Descrip.	(AP001072) Similar to mudrA. (M76978) [Oryza sativa]		

Seq. No.	55808	Seq. ID	OJ000313_29.0419.C5
Gene No.	116905	Strand	-
Start	33	End	8251
Name	OJ000313_29.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	6138	End	6467
GI	none	Score	100
Exons	6138..6317, 6345..6467		

Seq. No.	55808	Seq. ID	OJ000313_29.0419.C5
Gene No.	116905	Strand	-
Start	33	End	8251
Name	OJ000313_29.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	6595	End	7229
GI	none	Score	71
Exons	6595..6741, 6660..6857, 6865..6933, 6867..6932, 6928..7209, 6939..7217, 7020..7229		

Seq. No.	55809	Seq. ID	OJ000313_29.0419.C6
Gene No.	116906	Strand	-
Start	1619	End	2152
Name	OJ000313_29.0419.C6.o1.gs	Method	GENSCAN
Start	1619	End	2152
GI	none	Score	.64
Exons	1619..2152		

Seq. No.	55810	Seq. ID	OJ000313_29.0419.C7
Gene No.	116907	Strand	-
Start	182	End	1496
Name	OJ000313_29.0419.C7.o1.gs	Method	GENSCAN
Start	182	End	1496
GI	none	Score	.65
Exons	182..625, 800..962, 1121..1272, 1404..1496		

Seq. No.	55810	Seq. ID	OJ000313_29.0419.C7
Gene No.	116907	Strand	-
Start	182	End	1496
Name	OJ000313_29.0419.C7.o1.gp	Method	AAT/GAP
Start	808	End	879
GI	1036868	Score	93
Exons	808..879		
GI Descrip.	4680178/gb AF111709.1 AF111709 4.0e-63 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116908	Strand	+
Start	99	End	8677
Name	OJ000313_29.0419.C8.o1.gs	Method	GENSCAN
Start	99	End	8677
GI	none	Score	.79
Exons	99..337, 1347..1584, 2194..2386, 3525..3785, 3800..3921, 4076..4135, 4631..4713, 5098..5293, 5412..5541, 5802..5873, 6038..6210, 6336..6416, 7310..7379, 8496..8677		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116908	Strand	+
Start	99	End	8677
Name	OJ000313_29.0419.C8.o1.np	Method	AAT/NAP
Start	175	End	8674
GI	4680190	Score	2957
Exons	175..311, 1347..1584, 2194..2386, 2465..2601, 3689..3921, 4076..4135, 4631..4713, 5098..5293, 5412..5541, 5802..5873, 6038..6210, 6336..6416, 7310..7379, 8496..8674		
GI Descrip.	(AF111710) putative dnaJ-like protein [Oryza sativa subsp. indica]		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116908	Strand	+
Start	99	End	8677
Name	OJ000313_29.0419.C8.o1.gp	Method	AAT/GAP
Start	934	End	2575
GI	57512_1.R1084	Score	1048
Exons	934..963, 1347..1584, 2194..2386, 2465..2575		
GI Descrip.	'4680190/gb AAD27555.1 AF111710_1 1.0e-88 (AF111710) putative dnaJ-like protein [Oryza sativa subsp. indica]'		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116908	Strand	+
Start	99	End	8677
Name	OJ000313_29.0419.C8.o2.gp	Method	AAT/GAP
Start	3613	End	5289
GI	27353_1.R1084	Score	921
Exons	3613..3709, 3800..3921, 4076..4135, 4631..4713, 5131..5289		
GI Descrip.	'4680190/gb AAD27555.1 AF111710_1 2.0e-51 (AF111710) putative dnaJ-like protein [Oryza sativa subsp. indica]'		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116908	Strand	+
Start	99	End	8677
Name	OJ000313_29.0419.C8.o3.gp	Method	AAT/GAP

Start	6130	End	7277
GI	6519_1.R1084	Score	919
Exons	6130..6210, 6336..6416, 6937..7277		
GI Descrip.	'4680190/gb AAD27555.1 AF111710_1 2.0e-16 (AF111710) putative dnaJ-like protein [Oryza sativa subsp. indica]'		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116909	Strand	-
Start	9727	End	10918
Name	OJ000313_29.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	3831	End	7017
GI	none	Score	126
Exons	3831..3920, 3832..3921, 4628..4714, 4632..4703, 4633..4710, 5129..5263, 5132..5287, 5142..5288, 5411..5521, 5418..5540, 5798..5962, 5800..5961, 6034..6213, 6137..6208, 6138..6212, 6335..6409, 6344..6397, 6934..7017		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116909	Strand	-
Start	9727	End	10918
Name	OJ000313_29.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	4073	End	7017
GI	none	Score	91
Exons	4073..4129, 4075..4131, 4626..4709, 4628..4714, 4629..4709, 4630..4710, 5129..5293, 5130..5210, 5132..5293, 5245..5298, 5409..5540, 5410..5541, 5411..5539, 5798..5962, 5800..5961, 6029..6211, 6030..6212, 6034..6213, 6138..6212, 6335..6439, 6336..6416, 6359..6439, 6934..7017		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116909	Strand	-
Start	9727	End	10918
Name	OJ000313_29.0419.C8.o2.tc	Method	TBLASTX:Cress
Start	5129	End	6213
GI	none	Score	129
Exons	5129..5263, 5415..5555, 5788..5961, 5798..5962, 6052..6213		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116909	Strand	-
Start	9727	End	10918
Name	OJ000313_29.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	5800	End	6397
GI	none	Score	203
Exons	5800..5961, 5800..5961, 5801..5962, 6024..6212, 6029..6187, 6034..6213, 6088..6210, 6138..6212, 6335..6397, 6344..6397		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116909	Strand	-
Start	9727	End	10918
Name	OJ000313_29.0419.C8.o2.gs	Method	GENSCAN
Start	9727	End	10774
GI	none	Score	.45
Exons	9727..10396, 10522..10774		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116909	Strand	-
Start	9727	End	10918

Name	OJ000313_29.0419.C8.o2.np	Method	AAT/NAP
Start	9730	End	10918
GI	4680191	Score	1562
Exons	9730..10396, 10522..10784, 10880..10918		
GI Descrip.	(AF111710) putative myb-related protein [Oryza sativa subsp. indica]		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116909	Strand	-
Start	9727	End	10918
Name	OJ000313_29.0419.C8.o4.gp	Method	AAT/GAP
Start	10180	End	10605
GI	LIB3434-054-P1-K1-G7	Score	509
Exons	10180..10396, 10522..10605		
GI Descrip.	'4680191/gb AAD27556.1 AF111710_2 2.0e-45 (AF111710) putative myb-related protein [Oryza sativa subsp. indica]'		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116909	Strand	-
Start	9727	End	10918
Name	OJ000313_29.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	10282	End	10916
GI	none	Score	138
Exons	10282..10323, 10288..10398, 10289..10399, 10349..10399, 10360..10404, 10521..10613, 10521..10655, 10522..10656, 10748..10888, 10760..10879, 10761..10916		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116909	Strand	-
Start	9727	End	10918
Name	OJ000313_29.0419.C8.o2.tw	Method	TBLASTX:Wheat
Start	10282	End	10891
GI	none	Score	115
Exons	10282..10398, 10283..10399, 10349..10399, 10504..10656, 10521..10655, 10766..10876, 10775..10891		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116909	Strand	-
Start	9727	End	10918
Name	OJ000313_29.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	10306	End	10867
GI	none	Score	80
Exons	10306..10410, 10307..10465, 10521..10655, 10522..10656, 10766..10867		

Seq. No.	55811	Seq. ID	OJ000313_29.0419.C8
Gene No.	116909	Strand	-
Start	9727	End	10918
Name	OJ000313_29.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	10312	End	10870
GI	none	Score	133
Exons	10312..10371, 10360..10398, 10521..10658, 10522..10659, 10760..10870, 10761..10817		

Seq. No.	55812	Seq. ID	OJ000313_29.0419.C9
Gene No.	116910	Strand	+
Start	17145	End	18952

Name	OJ000313_29.0419.C9.o2.np	Method	AAT/NAP
Start	17145	End	18952
GI	4680193	Score	1123
Exons	17145..17189, 17248..17795, 18433..18952		
GI Descrip.	(AF111710) putative farnesyl pyrophosphate synthase [Oryza sativa subsp. indica]		

Seq. No.	55812	Seq. ID	OJ000313_29.0419.C9
Gene No.	116910	Strand	+
Start	17145	End	18952
Name	OJ000313_29.0419.C9.o1.gp	Method	AAT/GAP
Start	17312	End	18548
GI	21028_1.R1084	Score	951
Exons	17312..17692, 18318..18342, 18433..18548		
GI Descrip.	'4680193/gb AAD27558.1 AF111710_4 6.0e-63 (AF111710) putative farnesyl pyrophosphate synthase [Oryza sativa subsp. indica]'		

Seq. No.	55812	Seq. ID	OJ000313_29.0419.C9
Gene No.	116911	Strand	-
Start	1	End	16371
Name	OJ000313_29.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	16371
GI	4680191	Score	4337
Exons	1..79, 2784..2972, 3366..3484, 4410..4450, 5345..5513, 5952..6144, 7884..7910, 8382..8528, 8744..8834, 10123..10547, 10826..10908, 12226..12330, 12485..12605, 12990..13578, 14112..14288, 14349..14480, 14614..14707, 14759..14819, 16297..16371		
GI Descrip.	(AF111710) putative myb-related protein [Oryza sativa subsp. indica]		

Seq. No.	55812	Seq. ID	OJ000313_29.0419.C9
Gene No.	116911	Strand	-
Start	1	End	16371
Name	OJ000313_29.0419.C9.o1.gs	Method	GENSCAN
Start	127	End	16371
GI	none	Score	.49
Exons	127..263, 2784..2972, 4410..4467, 5345..5513, 5952..6144, 7884..7910, 8382..8528, 8744..8834, 9933..10057, 10206..10547, 10826..10908, 12226..12330, 12485..12608, 12681..13216, 13231..13578, 14112..14288, 14349..14480, 14614..14707, 14759..14819, 16297..16371		

Seq. No.	55812	Seq. ID	OJ000313_29.0419.C9
Gene No.	116911	Strand	-
Start	1	End	16371
Name	OJ000313_29.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	12486	End	12708
GI	none	Score	205
Exons	12486..12632, 12487..12708		

Seq. No.	55812	Seq. ID	OJ000313_29.0419.C9
Gene No.	116912	Strand	-
Start	17654	End	18587
Name	OJ000313_29.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	17654	End	18587
GI	none	Score	64

Exons 17654..17698, 18319..18342, 18320..18343, 18431..18550,
18432..18551, 18435..18587

Seq. No.	55813	Seq. ID	OJ000313_29.0419.C11
Gene No.	116913	Strand	-
Start	608	End	743
Name	OJ000313_29.0419.C11.o1.np	Method	AAT/NAP
Start	608	End	743
GI	6907088	Score	100
Exons	608..743		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	55814	Seq. ID	OJ000313_29.0419.C12
Gene No.	116914	Strand	-
Start	75	End	391
Name	OJ000313_29.0419.C12.o1.gs	Method	GENSCAN
Start	75	End	391
GI	none	Score	.77
Exons	75..143, 331..391		

Seq. No.	55815	Seq. ID	OJ000313_29.0419.C13
Gene No.	116915	Strand	+
Start	4235	End	16886
Name	OJ000313_29.0419.C13.o1.gp	Method	AAT/GAP
Start	4189	End	4607
GI	5002833	Score	697
Exons	4189..4607		

Seq. No.	55815	Seq. ID	OJ000313_29.0419.C13
Gene No.	116915	Strand	+
Start	4235	End	16886
Name	OJ000313_29.0419.C13.o2.gs	Method	GENSCAN
Start	4235	End	7713
GI	none	Score	.75
Exons	4235..5440, 5903..6026, 6028..6262, 6337..6487, 7035..7246, 7563..7713		

Seq. No.	55815	Seq. ID	OJ000313_29.0419.C13
Gene No.	116915	Strand	+
Start	4235	End	16886
Name	OJ000313_29.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	4267	End	11936
GI	none	Score	210
Exons	4267..4464, 4268..4465, 4471..4608, 4472..4609, 11605..11637, 11633..11785, 11741..11842, 11788..11868, 11789..11935, 11810..11935, 11823..11936		

Seq. No.	55815	Seq. ID	OJ000313_29.0419.C13
Gene No.	116915	Strand	+
Start	4235	End	16886
Name	OJ000313_29.0419.C13.o1.np	Method	AAT/NAP
Start	4271	End	16886
GI	7487976	Score	593
Exons	4271..4495, 11810..12518, 16837..16886		
GI Descrip.	NPK1-related protein kinase homolog T26B15.7 - Arabidopsis thaliana gi 3298539 gb AAC25933.1 (AC004681) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	55815	Seq. ID	OJ000313_29.0419.C13
Gene No.	116915	Strand	+
Start	4235	End	16886
Name	OJ000313_29.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	4322	End	12349
GI	none	Score	39
Exons	4322..4375, 4459..4545, 4460..4546, 4546..4737, 4547..4708, 4735..5022, 4736..5023, 11816..11872, 11821..11844, 11873..12064, 11932..12063, 12061..12342, 12062..12349		

Seq. No.	55815	Seq. ID	OJ000313_29.0419.C13
Gene No.	116915	Strand	+
Start	4235	End	16886
Name	OJ000313_29.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	4451	End	12280
GI	none	Score	38
Exons	4451..4471, 4510..4716, 4512..4553, 4532..4714, 4702..4887, 4715..4855, 4832..4954, 4856..4954, 11788..11862, 11837..11875, 11861..12040, 11864..12040, 12028..12213, 12041..12181, 12184..12279, 12185..12280		

Seq. No.	55815	Seq. ID	OJ000313_29.0419.C13
Gene No.	116915	Strand	+
Start	4235	End	16886
Name	OJ000313_29.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	4547	End	12354
GI	none	Score	126
Exons	4547..4720, 4736..4765, 4783..4875, 4796..4876, 4864..5016, 4871..5023, 11840..12049, 12062..12091, 12122..12214, 12190..12354, 12197..12349		

Seq. No.	55815	Seq. ID	OJ000313_29.0419.C13
Gene No.	116915	Strand	+
Start	4235	End	16886
Name	OJ000313_29.0419.C13.o2.tw	Method	TBLASTX:Wheat
Start	5027	End	12577
GI	none	Score	102
Exons	5027..5107, 5029..5103, 5066..5107, 5067..5147, 5109..5228, 5162..5236, 5162..5236, 12394..12417, 12395..12421, 12487..12558, 12488..12577		

Seq. No.	55815	Seq. ID	OJ000313_29.0419.C13
Gene No.	116915	Strand	+
Start	4235	End	16886
Name	OJ000313_29.0419.C13.o3.gs	Method	GENSCAN
Start	11573	End	14848
GI	none	Score	.7
Exons	11573..12862, 14500..14644, 14682..14848		

Seq. No.	55816	Seq. ID	OJ000313_29.0419.C14
Gene No.	116916	Strand	+
Start	1	End	4694
Name	OJ000313_29.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	4694
GI	7488217	Score	2161
Exons	1..239, 669..755, 854..1066, 1439..1676, 1728..2712, 2758..3410,		

3491..3637, 3929..4172, 4203..4329, 4584..4694
 GI Descrip. probable TMV resistance protein - Arabidopsis thaliana
 gi|2244793|emb|CAB10216.1| (Z97336) disease resistance N like
 protein [Arabidopsis thaliana] gi|7268142|emb|CAB78479.1|
 (AL161538) disease resistance N like protein [Arabidopsis
 thaliana]

Seq. No.	55816	Seq. ID	OJ000313_29.0419.C14
Gene No.	116916	Strand	+
Start	1	End	4694
Name	OJ000313_29.0419.C14.o1.gs	Method	GENSCAN
Start	323	End	4384
GI	none	Score	.97
Exons	323..412, 854..970, 1347..3410, 3491..3637, 3929..4384		

Seq. No.	55816	Seq. ID	OJ000313_29.0419.C14
Gene No.	116916	Strand	+
Start	1	End	4694
Name	OJ000313_29.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	1665	End	2735
GI	none	Score	73
Exons	1665..1817, 1719..1820, 1773..1946, 1875..1955, 2001..2141, 2037..2075, 2070..2237, 2193..2639, 2201..2638, 2544..2720, 2570..2686, 2571..2735		

Seq. No.	55816	Seq. ID	OJ000313_29.0419.C14
Gene No.	116916	Strand	+
Start	1	End	4694
Name	OJ000313_29.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	1665	End	2741
GI	none	Score	716
Exons	1665..2246, 1670..1774, 1686..1913, 1818..1955, 1841..2248, 2057..2221, 2280..2423, 2282..2359, 2325..2480, 2517..2615, 2538..2741, 2538..2735, 2553..2735		

Seq. No.	55816	Seq. ID	OJ000313_29.0419.C14
Gene No.	116916	Strand	+
Start	1	End	4694
Name	OJ000313_29.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	1719	End	2771
GI	none	Score	164
Exons	1719..1916, 1725..1817, 1770..1958, 1854..1955, 2001..2237, 2042..2236, 2091..2216, 2274..2579, 2277..2570, 2280..2771, 2282..2770		

Seq. No.	55816	Seq. ID	OJ000313_29.0419.C14
Gene No.	116916	Strand	+
Start	1	End	4694
Name	OJ000313_29.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	2742	End	2953
GI	none	Score	336
Exons	2742..2951, 2742..2942, 2744..2953		

Seq. No.	55816	Seq. ID	OJ000313_29.0419.C14
Gene No.	116916	Strand	+
Start	1	End	4694
Name	OJ000313_29.0419.C14.o2.ts	Method	TBLASTX:Soybean

Start	2775	End	3122
GI	none	Score	276
Exons	2775..2942, 2775..2942, 2777..2968, 2798..2944, 2964..3122		

Seq. No.	55816	Seq. ID	OJ000313_29.0419.C14
Gene No.	116916	Strand	+
Start	1	End	4694
Name	OJ000313_29.0419.C14.o3.tm	Method	TBLASTX:Maize
Start	3075	End	3635
GI	none	Score	54
Exons	3075..3125, 3078..3125, 3120..3209, 3129..3209, 3130..3210, 3130..3210, 3198..3245, 3248..3274, 3321..3410, 3329..3412, 3330..3434, 3484..3633, 3488..3634, 3489..3635		

Seq. No.	55817	Seq. ID	OJ000313_29.0419.C15
Gene No.	116917	Strand	-
Start	27	End	439
Name	OJ000313_29.0419.C15.o1.gs	Method	GENSCAN
Start	27	End	439
GI	none	Score	.64
Exons	27..178, 415..439		

Seq. No.	55818	Seq. ID	OJ000313_29.0419.C16
Gene No.	116918	Strand	+
Start	501	End	1128
Name	OJ000313_29.0419.C16.o1.gs	Method	GENSCAN
Start	501	End	1128
GI	none	Score	.63
Exons	501..550, 654..750, 848..944, 977..1128		

Seq. No.	55819	Seq. ID	OJ000313_29.0419.C17
Gene No.	116919	Strand	+
Start	1145	End	4475
Name	OJ000313_29.0419.C17.o1.gs	Method	GENSCAN
Start	1145	End	1361
GI	none	Score	.91
Exons	1145..1361		

Seq. No.	55819	Seq. ID	OJ000313_29.0419.C17
Gene No.	116919	Strand	+
Start	1145	End	4475
Name	OJ000313_29.0419.C17.o1.np	Method	AAT/NAP
Start	1145	End	4475
GI	4680190	Score	111
Exons	1145..1369, 1765..1935, 4452..4475		
GI Descrip.	(AF111710) putative dnaJ-like protein [Oryza sativa subsp. indica]		

Seq. No.	55819	Seq. ID	OJ000313_29.0419.C17
Gene No.	116919	Strand	+
Start	1145	End	4475
Name	OJ000313_29.0419.C17.o2.gs	Method	GENSCAN
Start	2615	End	2923
GI	none	Score	.74
Exons	2615..2923		

Seq. No.	55819	Seq. ID	OJ000313_29.0419.C17
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Gene No.	116919	Strand	+
Start	1145	End	4475
Name	OJ000313_29.0419.C17.o3.gs	Method	GENSCAN
Start	4118	End	4232
GI	none	Score	.56
Exons	4118..4232		
Seq. No.	55820	Seq. ID	OJ000313_29.0419.C18
Gene No.	116920	Strand	-
Start	1	End	3105
Name	OJ000313_29.0419.C18.o1.gp	Method	AAT/GAP
Start	1	End	1274
GI	4591.1.R1084	Score	1548
Exons	1..289, 382..456, 607..1010, 1235..1274		
GI Descrip.	'4567283/gb AAD23696.1 AC006841_24 1.0e-35 (AC006841) unknown protein [Arabidopsis thaliana]'		
Seq. No.	55820	Seq. ID	OJ000313_29.0419.C18
Gene No.	116920	Strand	-
Start	1	End	3105
Name	OJ000313_29.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	245	End	3103
GI	none	Score	82
Exons	245..292, 379..462, 382..462, 599..817, 607..876, 608..829, 797..1012, 808..1011, 866..1012, 1209..1346, 1219..1344, 1221..1346, 1705..1821, 1706..1822, 1709..1822, 1914..2018, 1919..2026, 1922..2020, 2180..2248, 2181..2249, 2182..2250, 2243..2278, 2246..2281, 2325..2480, 2364..2414, 2365..2415, 2539..2655, 2540..2644, 2541..2657, 2752..2823, 2753..2830, 2754..2831, 2754..2834, 2755..2832, 2916..3101, 2918..3103, 2919..3101		
Seq. No.	55820	Seq. ID	OJ000313_29.0419.C18
Gene No.	116920	Strand	-
Start	1	End	3105
Name	OJ000313_29.0419.C18.o2.tc	Method	TBLASTX:Cress
Start	328	End	775
GI	none	Score	58
Exons	328..477, 397..462, 607..774, 608..775		
Seq. No.	55820	Seq. ID	OJ000313_29.0419.C18
Gene No.	116920	Strand	-
Start	1	End	3105
Name	OJ000313_29.0419.C18.o1.np	Method	AAT/NAP
Start	343	End	3105
GI	4567283	Score	939
Exons	343..456, 607..1010, 1214..1362, 1745..1818, 1915..2017, 2180..2279, 2362..2411, 2542..2643, 2753..2830, 2918..3105		
GI Descrip.	(AC006841) putative phosphatidylinositol/phosphatidylcholine transfer protein [Arabidopsis thaliana]		
Seq. No.	55820	Seq. ID	OJ000313_29.0419.C18
Gene No.	116920	Strand	-
Start	1	End	3105
Name	OJ000313_29.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	373	End	3103
GI	none	Score	59

Exons 373..462, 400..459, 599..787, 607..864, 608..838, 1706..1819, 1748..1906, 1916..2026, 1917..2018, 2174..2281, 2177..2281, 2193..2306, 2325..2411, 2365..2412, 2539..2655, 2540..2644, 2753..2830, 2754..2831, 2897..3103, 2919..3101

Seq. No.	55820	Seq. ID	OJ000313_29.0419.C18
Gene No.	116920	Strand	-
Start	1	End	3105
Name	OJ000313_29.0419.C18.o1.gs	Method	GENSCAN
Start	382	End	3005
GI	none	Score	.84
Exons	382..522, 607..1010, 1235..1343, 1919..2017, 2542..2643, 2753..2877, 2918..3005		

Seq. No.	55820	Seq. ID	OJ000313_29.0419.C18
Gene No.	116920	Strand	-
Start	1	End	3105
Name	OJ000313_29.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	2177	End	2830
GI	none	Score	72
Exons	2177..2215, 2204..2281, 2205..2312, 2365..2412, 2539..2655, 2753..2830		

Seq. No.	55820	Seq. ID	OJ000313_29.0419.C18
Gene No.	116920	Strand	-
Start	1	End	3105
Name	OJ000313_29.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	2363	End	3103
GI	none	Score	67
Exons	2363..2410, 2363..2404, 2364..2411, 2365..2412, 2539..2655, 2540..2644, 2752..2826, 2753..2830, 2754..2831, 2894..3103, 2914..3039, 2919..3095		

Seq. No.	55820	Seq. ID	OJ000313_29.0419.C18
Gene No.	116920	Strand	-
Start	1	End	3105
Name	OJ000313_29.0419.C18.o2.gp	Method	AAT/GAP
Start	2558	End	3105
GI	24125.1.R1084	Score	648
Exons	2558..2643, 2753..2830, 2918..3105		
GI Descrip.	'4914429/emb CAB43632.1 1.0e-118 (AL050351) SEC14-like protein [Arabidopsis thaliana]'		

Seq. No.	55820	Seq. ID	OJ000313_29.0419.C18
Gene No.	116920	Strand	-
Start	1	End	3105
Name	OJ000313_29.0419.C18.o3.tc	Method	TBLASTX:Cress
Start	2945	End	3103
GI	none	Score	98
Exons	2945..3103, 2949..3101		

Seq. No.	55821	Seq. ID	OJ000313_29.0419.C19
Gene No.	116921	Strand	-
Start	1	End	4634
Name	OJ000313_29.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	1635
GI	7487350	Score	407

Exons 1..172, 490..781, 1602..1635
 GI Descrip. hypothetical protein T22F8.70 - Arabidopsis thaliana
 gi|4914429|emb|CAB43632.1| (AL050351) SEC14-like protein
 [Arabidopsis thaliana] gi|7270900|emb|CAB80580.1| (AL161594)
 SEC14-like protein [Arabidopsis thaliana]

Seq. No. 55821 Seq. ID OJ000313_29.0419.C19
 Gene No. 116921 Strand -
 Start 1 End 4634
 Name OJ000313_29.0419.C19.ol.ts Method TBLASTX:Soybean
 Start 53 End 1635
 GI none Score 114
 Exons 53..175, 79..174, 485..565, 486..605, 619..699, 621..800,
 667..780, 1600..1635

Seq. No. 55821 Seq. ID OJ000313_29.0419.C19
 Gene No. 116921 Strand -
 Start 1 End 4634
 Name OJ000313_29.0419.C19.ol.gp Method AAT/GAP
 Start 64 End 1700
 GI 24125 1.R1084 Score 864
 Exons 64..172, 490..781, 1602..1700
 GI Descrip. '4914429/emb|CAB43632.1| 1.0e-118 (AL050351) SEC14-like protein
 [Arabidopsis thaliana]'

Seq. No. 55821 Seq. ID OJ000313_29.0419.C19
 Gene No. 116921 Strand -
 Start 1 End 4634
 Name OJ000313_29.0419.C19.ol.tm Method TBLASTX:Maize
 Start 72 End 1704
 GI none Score 93
 Exons 72..173, 74..181, 74..172, 76..174, 486..800, 489..800,
 1586..1675, 1600..1635, 1602..1673, 1603..1704

Seq. No. 55821 Seq. ID OJ000313_29.0419.C19
 Gene No. 116921 Strand -
 Start 1 End 4634
 Name OJ000313_29.0419.C19.ol.gs Method GENSCAN
 Start 76 End 4634
 GI none Score .54
 Exons 76..172, 490..781, 834..902, 1602..1681, 1864..2029, 2062..2251,
 4221..4356, 4600..4634

Seq. No. 55821 Seq. ID OJ000313_29.0419.C19
 Gene No. 116921 Strand -
 Start 1 End 4634
 Name OJ000313_29.0419.C19.ol.tc Method TBLASTX:Cress
 Start 109 End 1635
 GI none Score 68
 Exons 109..171, 109..174, 486..605, 492..605, 621..692, 678..800,
 685..780, 1600..1635

Seq. No. 55822 Seq. ID OJ000313_29.0419.C20
 Gene No. 116922 Strand -
 Start 648 End 1271
 Name OJ000313_29.0419.C20.ol.gs Method GENSCAN
 Start 648 End 1271

GI	none	Score	.4
Exons	648..715, 720..1271		
Seq. No.	55823	Seq. ID	OJ000313_29.0419.C21
Gene No.	116923	Strand	+
Start	1	End	4029
Name	OJ000313_29.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	4029
GI	4680190	Score	338
Exons	1..23, 228..427, 599..819, 908..1016, 4006..4029		
GI Descrip.	(AF111710) putative dnaJ-like protein [Oryza sativa subsp. indica]		
Seq. No.	55823	Seq. ID	OJ000313_29.0419.C21
Gene No.	116923	Strand	+
Start	1	End	4029
Name	OJ000313_29.0419.C21.o1.gs	Method	GENSCAN
Start	211	End	1049
GI	none	Score	.9
Exons	211..427, 599..791, 886..1049		
Seq. No.	55823	Seq. ID	OJ000313_29.0419.C21
Gene No.	116924	Strand	+
Start	3997	End	5449
Name	OJ000313_29.0419.C21.o2.gs	Method	GENSCAN
Start	3997	End	5449
GI	none	Score	.63
Exons	3997..4842, 4940..5449		
Seq. No.	55823	Seq. ID	OJ000313_29.0419.C21
Gene No.	116925	Strand	+
Start	11011	End	13223
Name	OJ000313_29.0419.C21.o5.np	Method	AAT/NAP
Start	11011	End	13223
GI	4680182	Score	3840
Exons	11011..13223		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	55823	Seq. ID	OJ000313_29.0419.C21
Gene No.	116926	Strand	+
Start	17817	End	18535
Name	OJ000313_29.0419.C21.o6.np	Method	AAT/NAP
Start	17817	End	18535
GI	4680186	Score	542
Exons	17817..17886, 18121..18260, 18349..18535		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	55823	Seq. ID	OJ000313_29.0419.C21
Gene No.	116927	Strand	-
Start	3717	End	5639
Name	OJ000313_29.0419.C21.o2.np	Method	AAT/NAP
Start	3717	End	5639
GI	4680184	Score	3020
Exons	3717..5639		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	55823	Seq. ID	OJ000313_29.0419.C21

Gene No.	116928	Strand	-
Start	7636	End	7926
Name	OJ000313_29.0419.C21.o3.np	Method	AAT/NAP
Start	6902	End	7712
GI	4680186	Score	332
Exons	6902..7076, 7578..7712		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	55823	Seq. ID	OJ000313_29.0419.C21
Gene No.	116928	Strand	-
Start	7636	End	7926
Name	OJ000313_29.0419.C21.o3.gs	Method	GENSCAN
Start	7636	End	7926
GI	none	Score	.89
Exons	7636..7724, 7866..7926		

Seq. No.	55823	Seq. ID	OJ000313_29.0419.C21
Gene No.	116929	Strand	-
Start	9168	End	9244
Name	OJ000313_29.0419.C21.o4.np	Method	AAT/NAP
Start	9168	End	9244
GI	5852084	Score	77
Exons	9168..9244		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	55823	Seq. ID	OJ000313_29.0419.C21
Gene No.	116930	Strand	-
Start	11038	End	11493
Name	OJ000313_29.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	11038	End	11391
GI	none	Score	116
Exons	11038..11241, 11302..11391		

Seq. No.	55823	Seq. ID	OJ000313_29.0419.C21
Gene No.	116930	Strand	-
Start	11038	End	11493
Name	OJ000313_29.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	11116	End	11493
GI	none	Score	77
Exons	11116..11208, 11290..11493		

Seq. No.	55824	Seq. ID	OJ000313_29.0419.C22
Gene No.	116931	Strand	+
Start	1	End	1069
Name	OJ000313_29.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	1069
GI	4680186	Score	465
Exons	1..34, 154..310, 913..1069		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	55824	Seq. ID	OJ000313_29.0419.C22
Gene No.	116931	Strand	+
Start	1	End	1069
Name	OJ000313_29.0419.C22.o1.gs	Method	GENSCAN
Start	154	End	700
GI	none	Score	.69
Exons	154..310, 594..700		

Seq. No. 55825
 Gene No. 116932
 Start 437
 Name OJ000323_25.0420.C4.ol.gs
 Start 437
 GI none
 Exons 437..534, 586..708

Seq. ID OJ000323_25.0420.C4
 Strand +
 End 708
 Method GENSCAN
 End 708
 Score .53

Seq. No. 55826
 Gene No. 116933
 Start 527
 Name OJ000323_25.0420.C6.ol.gs
 Start 527
 GI none
 Exons 527..571

Seq. ID OJ000323_25.0420.C6
 Strand -
 End 571
 Method GENSCAN
 End 571
 Score .44

Seq. No. 55827
 Gene No. 116934
 Start 1244
 Name OJ000323_25.0420.C10.ol.gp
 Start 1244
 GI none
 Exons 1244..1458, 1530..1662

Seq. ID OJ000323_25.0420.C10
 Strand +
 End 1662
 Method AAT/GAP
 End 1662
 Score 624

Seq. No. 55827
 Gene No. 116935
 Start 23
 Name OJ000323_25.0420.C10.ol.np
 Start 23
 GI 6539571
 Exons 23..107, 895..1016, 1902..1925
 GI Descrip. (AP000836) hypothetical protein [Oryza sativa]

Seq. ID OJ000323_25.0420.C10
 Strand -
 End 1925
 Method AAT/NAP
 End 1925
 Score 100

Seq. No. 55827
 Gene No. 116935
 Start 23
 Name OJ000323_25.0420.C10.ol.gs
 Start 873
 GI none
 Exons 873..1051, 1342..1588

Seq. ID OJ000323_25.0420.C10
 Strand -
 End 1925
 Method GENSCAN
 End 1588
 Score .56

Seq. No. 55828
 Gene No. 116936
 Start 1
 Name OJ000323_25.0420.C11.ol.np
 Start 1
 GI 4234953
 Exons 1..23, 1196..1615
 GI Descrip. (AF098970) NBS-LRR-like protein cD7 [Phaseolus vulgaris]

Seq. ID OJ000323_25.0420.C11
 Strand -
 End 1615
 Method AAT/NAP
 End 1615
 Score 153

Seq. No. 55828
 Gene No. 116936
 Start 1
 Name OJ000323_25.0420.C11.ol.gs
 Start 720
 GI none

Seq. ID OJ000323_25.0420.C11
 Strand -
 End 1615
 Method GENSCAN
 End 1523
 Score .53

Exons 720..824, 1048..1174, 1276..1523

Seq. No.	55829	Seq. ID	OJ000323_25.0420.C12
Gene No.	116937	Strand	+
Start	89	End	246
Name	OJ000323_25.0420.C12.ol.gs	Method	GENSCAN
Start	89	End	246
GI	none	Score	.42
Exons	89..246		

Seq. No.	55830	Seq. ID	OJ000323_25.0420.C14
Gene No.	116938	Strand	+
Start	1	End	737
Name	OJ000323_25.0420.C14.ol.np	Method	AAT/NAP
Start	1	End	737
GI	2388577	Score	640
Exons	1..737		
GI Descrip.	(AC000098) Similar to Arabidopsis putative ion-channel PID:g2262157 (gb AC002329). [Arabidopsis thaliana]		

Seq. No.	55830	Seq. ID	OJ000323_25.0420.C14
Gene No.	116938	Strand	+
Start	1	End	737
Name	OJ000323_25.0420.C14.ol.tc	Method	TBLASTX:Cress
Start	2	End	721
GI	none	Score	43
Exons	2..37, 95..292, 112..273, 119..274, 302..721		

Seq. No.	55830	Seq. ID	OJ000323_25.0420.C14
Gene No.	116938	Strand	+
Start	1	End	737
Name	OJ000323_25.0420.C14.o2.ts	Method	TBLASTX:Soybean
Start	2	End	304
GI	none	Score	200
Exons	2..304, 7..270		

Seq. No.	55830	Seq. ID	OJ000323_25.0420.C14
Gene No.	116938	Strand	+
Start	1	End	737
Name	OJ000323_25.0420.C14.ol.gp	Method	AAT/GAP
Start	28	End	225
GI	none	Score	328
Exons	28..225		

Seq. No.	55830	Seq. ID	OJ000323_25.0420.C14
Gene No.	116938	Strand	+
Start	1	End	737
Name	OJ000323_25.0420.C14.ol.ts	Method	TBLASTX:Soybean
Start	311	End	709
GI	none	Score	68
Exons	311..394, 313..384, 401..709, 436..702		

Seq. No.	55830	Seq. ID	OJ000323_25.0420.C14
Gene No.	116938	Strand	+
Start	1	End	737
Name	OJ000323_25.0420.C14.ol.tm	Method	TBLASTX:Maize
Start	323	End	658

GI	none	Score	67
Exons	323..397, 407..658, 410..493, 436..651		
Seq. No.	55831	Seq. ID	OJ000323_25.0420.C16
Gene No.	116939	Strand	+
Start	1	End	2394
Name	OJ000323_25.0420.C16.o1.np	Method	AAT/NAP
Start	1	End	2394
GI	7228445	Score	27
Exons	1..42, 515..616, 2334..2394		
GI Descrip.	(AP001366) Similar to Arabidopsis thaliana chromosome 1 YAC YUP8H12R sequence, C2-HC type zinc finger protein C.e-MyT1. (AC002986) [Oryza sativa] gi 7228449 dbj BAA92409.1 (AP001366) Similar to Arabidopsis thaliana chromosome 1 YAC YUP8H12R sequence, C2-HC type zinc finger protein C.e-MyT1. (AC002986) [Oryza sativa]		

Seq. No.	55831	Seq. ID	OJ000323_25.0420.C16
Gene No.	116940	Strand	-
Start	928	End	1446
Name	OJ000323_25.0420.C16.o1.gs	Method	GENSCAN
Start	928	End	1446
GI	none	Score	.88
Exons	928..1041, 1127..1446		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116941	Strand	+
Start	278	End	2341
Name	OJ000323_25.0420.C17.o1.gp	Method	AAT/GAP
Start	278	End	2341
GI	381_1.R1084	Score	1116
Exons	278..345, 1497..1676, 1864..1938, 2039..2341		
GI Descrip.	'2500380/sp Q96499 RL44_GOSHI 2.0e-51 60S RIBOSOMAL PROTEIN L44 >gi_2119128_pir_JC4923_ribosomal protein RL44 - upland cotton >gi_1553129 (U64677) ribosomal protein L44 isoform a [Gossypium hirsutum] >gi_1553131 (U64678) ribosomal protein L44 isoform b [Gossypium hirsutum]'		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116941	Strand	+
Start	278	End	2341
Name	OJ000323_25.0420.C17.o1.gs	Method	GENSCAN
Start	343	End	2098
GI	none	Score	.92
Exons	343..407, 931..1060, 1497..1676, 1864..1938, 2039..2098		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116942	Strand	+
Start	7348	End	7807
Name	OJ000323_25.0420.C17.o5.gp	Method	AAT/GAP
Start	7348	End	7807
GI	381_1.R1084	Score	557
Exons	7348..7432, 7529..7807		
GI Descrip.	'2500380/sp Q96499 RL44_GOSHI 2.0e-51 60S RIBOSOMAL PROTEIN L44 >gi_2119128_pir_JC4923_ribosomal protein RL44 - upland cotton >gi_1553129 (U64677) ribosomal protein L44 isoform a [Gossypium hirsutum] >gi_1553131 (U64678) ribosomal protein L44 isoform b		

[Gossypium hirsutum]

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116942	Strand	+
Start	7348	End	7807
Name	OJ000323_25.0420.C17.o4.gp	Method	AAT/GAP
Start	7350	End	7802
GI	381_1.R1084	Score	579
Exons	7350..7432, 7529..7802		
GI Descrip.	'2500380/sp Q96499 RL44_GOSHI 2.0e-51 60S RIBOSOMAL PROTEIN L44 >gi_2119128_pir_JC4923_ribosomal protein RL44 - upland cotton >gi_1553129 (U64677) ribosomal protein L44 isoform a [Gossypium hirsutum] >gi_1553131 (U64678) ribosomal protein L44 isoform b [Gossypium hirsutum]'		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116943	Strand	+
Start	10604	End	13307
Name	OJ000323_25.0420.C17.o4.gs	Method	GENSCAN
Start	10604	End	13095
GI	none	Score	.57
Exons	10604..10718, 11416..11555, 11957..12073, 12486..12665, 12863..12937, 13036..13095		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116943	Strand	+
Start	10604	End	13307
Name	OJ000323_25.0420.C17.o3.np	Method	AAT/NAP
Start	12483	End	13092
GI	2500380	Score	483
Exons	12483..12665, 12863..12937, 13036..13092		
GI Descrip.	60S RIBOSOMAL PROTEIN L44 gi 2119128 pir JC4923_ribosomal protein RL44 - upland cotton gi 1553129 (U64677) ribosomal protein L44 isoform a [Gossypium hirsutum] gi 1553131 (U64678) ribosomal protein L44 isoform b [Gossypium hirsutum]		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116943	Strand	+
Start	10604	End	13307
Name	OJ000323_25.0420.C17.o6.gp	Method	AAT/GAP
Start	12486	End	13110
GI	381_1.R1084	Score	565
Exons	12486..12665, 12863..12937, 13036..13110		
GI Descrip.	'2500380/sp Q96499 RL44_GOSHI 2.0e-51 60S RIBOSOMAL PROTEIN L44 >gi_2119128_pir_JC4923_ribosomal protein RL44 - upland cotton >gi_1553129 (U64677) ribosomal protein L44 isoform a [Gossypium hirsutum] >gi_1553131 (U64678) ribosomal protein L44 isoform b [Gossypium hirsutum]'		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116943	Strand	+
Start	10604	End	13307
Name	OJ000323_25.0420.C17.o7.gp	Method	AAT/GAP
Start	12565	End	13307
GI	381_1.R1084	Score	740
Exons	12565..12665, 12863..12937, 13036..13307		
GI Descrip.	'2500380/sp Q96499 RL44_GOSHI 2.0e-51 60S RIBOSOMAL PROTEIN L44		

>gi_2119128_pir_JC4923 ribosomal protein RL44 - upland cotton
>gi_1553129 (U64677) ribosomal protein L44 isoform a [Gossypium
hirsutum] >gi_1553131 (U64678) ribosomal protein L44 isoform b
[Gossypium hirsutum]'

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116944	Strand	-
Start	4062	End	7284
Name	OJ000323_25.0420.C17.o2.gp	Method	AAT/GAP
Start	4062	End	5566
GI	2214_1.R1084	Score	1399
Exons	4062..4321, 4429..4642, 5016..5238, 5515..5566		
GI Descrip.	'2997591 1.0e-68 (AF020814) glucose-6-phosphate/phosphate-translocator precursor [Pisum sativum]'		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116944	Strand	-
Start	4062	End	7284
Name	OJ000323_25.0420.C17.o2.gs	Method	GENSCAN
Start	4164	End	7284
GI	none	Score	.95
Exons	4164..4169, 4429..4642, 5016..5238, 5515..5854, 5860..6516, 7135..7284		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116944	Strand	-
Start	4062	End	7284
Name	OJ000323_25.0420.C17.o1.np	Method	AAT/NAP
Start	4362	End	6354
GI	7484980	Score	1271
Exons	4362..4642, 5016..5238, 5515..5740, 5860..6354		
GI Descrip.	glucose-6-phosphate/phosphate translocator precursor - Arabidopsis thaliana gi 3367515 gb AAC28500.1 (AC004392) Similar to glucose-6-phosphate/phosphate-translocator (GPT) gb AF020814 from Pisum sativum. [Arabidopsis thaliana]		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116944	Strand	-
Start	4062	End	7284
Name	OJ000323_25.0420.C17.o3.gp	Method	AAT/GAP
Start	6160	End	6485
GI	none	Score	612
Exons	6160..6485		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116945	Strand	-
Start	9190	End	13108
Name	OJ000323_25.0420.C17.o2.tc	Method	TBLASTX:Cress
Start	1496	End	13102
GI	none	Score	320
Exons	1496..1675, 1497..1676, 1540..1677, 1861..1950, 1863..1937, 2033..2098, 2037..2102, 2037..2096, 2038..2103, 7355..7432, 7357..7449, 7505..7588, 7527..7592, 7527..7586, 7528..7593, 7528..7587, 12485..12664, 12486..12665, 12529..12666, 12860..12949, 12862..12936, 13012..13098, 13034..13102, 13035..13094		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116945	Strand	-
Start	9190	End	13108
Name	OJ000323_25.0420.C17.o2.ts	Method	TBLASTX:Soybean
Start	1496	End	13095
GI	none	Score	319
Exons	1496..1675, 1497..1676, 1549..1677, 1861..1950, 1863..1937, 2027..2128, 2037..2096, 7355..7432, 7357..7449, 7357..7449, 7505..7618, 7528..7587, 12476..12664, 12486..12665, 12538..12666, 12860..12949, 12862..12936, 13012..13095, - 13035..13094		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116945	Strand	-
Start	9190	End	13108
Name	OJ000323_25.0420.C17.o2.tw	Method	TBLASTX:Wheat
Start	1496	End	13108
GI	none	Score	326
Exons	1496..1675, 1497..1676, 1540..1677, 1549..1677, 1861..1950, 1863..1937, 2030..2101, 2037..2096, 7355..7432, 7357..7449, 7357..7449, 7505..7591, 7528..7587, 12485..12664, 12486..12665, 12529..12666, 12538..12666, 12860..12949, 12862..12936, 13012..13095, 13034..13108, 13035..13094		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116945	Strand	-
Start	9190	End	13108
Name	OJ000323_25.0420.C17.o2.tm	Method	TBLASTX:Maize
Start	1496	End	13097
GI	none	Score	329
Exons	1496..1675, 1497..1676, 1540..1677, 1549..1680, 1861..1950, 1863..1952, 1863..1937, 2027..2143, 2037..2096, 7355..7432, 7357..7449, 7357..7449, 7505..7726, 7528..7587, 12485..12664, 12486..12665, 12529..12666, 12538..12669, 12860..12949, 12862..12936, 13012..13095, 13035..13097, 13035..13094		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116945	Strand	-
Start	9190	End	13108
Name	OJ000323_25.0420.C17.o1.tm	Method	TBLASTX:Maize
Start	4425	End	6066
GI	none	Score	48
Exons	4425..4511, 4429..4641, 4430..4642, 4587..4643, 5013..5240, 5015..5239, 5511..5741, 5513..5740, 5857..6066, 5858..6064		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116945	Strand	-
Start	9190	End	13108
Name	OJ000323_25.0420.C17.o1.ts	Method	TBLASTX:Soybean
Start	4429	End	6066
GI	none	Score	247
Exons	4429..4650, 4442..4651, 5010..5240, 5015..5239, 5513..5674, 5513..5740, 5514..5741, 5857..6066, 5858..6064		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116945	Strand	-

Start	9190	End	13108
Name	OJ000323_25.0420.C17.o3.tc	Method	TBLASTX:Cress
Start	4429	End	4650
GI	none	Score	114
Exons	4429..4650, 4430..4624		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116945	Strand	-
Start	9190	End	13108
Name	OJ000323_25.0420.C17.o1.tc	Method	TBLASTX:Cress
Start	5136	End	6066
GI	none	Score	127
Exons	5136..5240, 5138..5239, 5511..5741, 5513..5740, 5857..6066, 5858..6064		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116945	Strand	-
Start	9190	End	13108
Name	OJ000323_25.0420.C17.o1.tw	Method	TBLASTX:Wheat
Start	5190	End	6058
GI	none	Score	84
Exons	5190..5240, 5190..5237, 5511..5741, 5513..5740, 5857..6057, 5858..6058		

Seq. No.	55832	Seq. ID	OJ000323_25.0420.C17
Gene No.	116945	Strand	-
Start	9190	End	13108
Name	OJ000323_25.0420.C17.o3.gs	Method	GENSCAN
Start	9190	End	9422
GI	none	Score	.77
Exons	9190..9222, 9273..9422		

Seq. No.	55833	Seq. ID	OJ000323_25.0420.C18
Gene No.	116946	Strand	+
Start	150	End	2592
Name	OJ000323_25.0420.C18.o1.gs	Method	GENSCAN
Start	150	End	2533
GI	none	Score	.69
Exons	150..261, 321..506, 1873..1989, 2404..2533		

Seq. No.	55833	Seq. ID	OJ000323_25.0420.C18
Gene No.	116946	Strand	+
Start	150	End	2592
Name	OJ000323_25.0420.C18.o1.tc	Method	TBLASTX:Cress
Start	2367	End	2592
GI	none	Score	137
Exons	2367..2591, 2403..2591, 2404..2592		

Seq. No.	55833	Seq. ID	OJ000323_25.0420.C18
Gene No.	116946	Strand	+
Start	150	End	2592
Name	OJ000323_25.0420.C18.o1.ts	Method	TBLASTX:Soybean
Start	2394	End	2592
GI	none	Score	144
Exons	2394..2591, 2403..2552, 2404..2592		

Seq. No.	55833	Seq. ID	OJ000323_25.0420.C18
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Gene No.	116946	Strand	+
Start	150	End	2592
Name	OJ000323_25.0420.C18.ol.np	Method	AAT/NAP
Start	2401	End	2592
GI	2500380	Score	292
Exons	2401..2592		
GI Descrip.	60S RIBOSOMAL PROTEIN L44 gi 2119128 pir JC4923 ribosomal protein RL44 - upland cotton gi 1553129 (U64677) ribosomal protein L44 isoform a [Gossypium hirsutum] gi 1553131 (U64678) ribosomal protein L44 isoform b [Gossypium hirsutum]		

Seq. No.	55833	Seq. ID	OJ000323_25.0420.C18
Gene No.	116946	Strand	+
Start	150	End	2592
Name	OJ000323_25.0420.C18.ol.tm	Method	TBLASTX:Maize
Start	2403	End	2592
GI	none	Score	179
Exons	2403..2585, 2403..2591, 2404..2592		

Seq. No.	55833	Seq. ID	OJ000323_25.0420.C18
Gene No.	116946	Strand	+
Start	150	End	2592
Name	OJ000323_25.0420.C18.ol.tw	Method	TBLASTX:Wheat
Start	2403	End	2592
GI	none	Score	218
Exons	2403..2591, 2403..2591, 2404..2592		

Seq. No.	55833	Seq. ID	OJ000323_25.0420.C18
Gene No.	116946	Strand	+
Start	150	End	2592
Name	OJ000323_25.0420.C18.ol.gp	Method	AAT/GAP
Start	2404	End	2592
GI	381_1.R1084	Score	323
Exons	2404..2592		
GI Descrip.	'2500380/sp Q96499 RL44_GOSHI 2.0e-51 60S RIBOSOMAL PROTEIN L44 >gi_2119128_pir_JC4923 ribosomal protein RL44 - upland cotton >gi_1553129 (U64677) ribosomal protein L44 isoform a [Gossypium hirsutum] >gi_1553131 (U64678) ribosomal protein L44 isoform b [Gossypium hirsutum]'		

Seq. No.	55834	Seq. ID	OJ000323_25.0420.C20
Gene No.	116947	Strand	+
Start	1	End	725
Name	OJ000323_25.0420.C20.ol.np	Method	AAT/NAP
Start	1	End	725
GI	5702196	Score	221
Exons	1..725		
GI Descrip.	(AF107293) rust resistance protein [Zea mays]		

Seq. No.	55834	Seq. ID	OJ000323_25.0420.C20
Gene No.	116948	Strand	+
Start	628	End	725
Name	OJ000323_25.0420.C20.ol.ts	Method	TBLASTX:Soybean
Start	240	End	647
GI	none	Score	101
Exons	240..353, 255..338, 417..647		

Seq. No.	55834	Seq. ID	OJ000323_25.0420.C20
Gene No.	116948	Strand	+
Start	628	End	725
Name	OJ000323_25.0420.C20.ol.gp	Method	AAT/GAP
Start	628	End	725
GI	LIB3475-006-P1-K1-F11	Score	196
Exons	628..725		
GI Descrip.	'2258317 7.0e-15 (AF004879) resistance complex protein I2C-2 [Lycopersicon esculentum]'		

Seq. No.	55835	Seq. ID	OJ000323_25.0420.C21
Gene No.	116949	Strand	+
Start	1	End	807
Name	OJ000323_25.0420.C21.ol.np	Method	AAT/NAP
Start	1	End	807
GI	170920	Score	83
Exons	1..84, 685..807		
GI Descrip.	(M62396) ribosomal protein L41 [Candida maltosa]		

Seq. No.	55835	Seq. ID	OJ000323_25.0420.C21
Gene No.	116950	Strand	-
Start	349	End	611
Name	OJ000323_25.0420.C21.ol.gs	Method	GENSCAN
Start	349	End	611
GI	none	Score	.78
Exons	349..408, 462..611		

Seq. No.	55836	Seq. ID	OJ000323_25.0420.C22
Gene No.	116951	Strand	+
Start	6	End	307
Name	OJ000323_25.0420.C22.ol.gp	Method	AAT/GAP
Start	6	End	307
GI	none	Score	553
Exons	6..307		

Seq. No.	55836	Seq. ID	OJ000323_25.0420.C22
Gene No.	116952	Strand	-
Start	13	End	285
Name	OJ000323_25.0420.C22.ol.gs	Method	GENSCAN
Start	13	End	285
GI	none	Score	.55
Exons	13..285		

Seq. No.	55837	Seq. ID	OJ000323_25.0420.C24
Gene No.	116953	Strand	-
Start	1	End	709
Name	OJ000323_25.0420.C24.ol.np	Method	AAT/NAP
Start	1	End	709
GI	6606266	Score	239
Exons	1..130, 266..709		
GI Descrip.	(AF158634) Vrgal [Triticum ventricosum]		

Seq. No.	55837..	Seq. ID	OJ000323_25.0420.C24
Gene No.	116953	Strand	-
Start	1	End	709
Name	OJ000323_25.0420.C24.ol.gs	Method	GENSCAN
Start	33	End	540

GI	none	Score	.52
Exons	33..540		
Seq. No.	55838	Seq. ID	OJ000323_25.0420.C25
Gene No.	116954	Strand	-
Start	60	End	888
Name	OJ000323_25.0420.C25.o1.gs	Method	GENSCAN
Start	60	End	888
GI	none	Score	.55
Exons	60..888		
Seq. No.	55839	Seq. ID	OJ000323_25.0420.C27
Gene No.	116955	Strand	+
Start	423	End	826
Name	OJ000323_25.0420.C27.o1.np	Method	AAT/NAP
Start	423	End	826
GI	7489501	Score	131
Exons	423..826		
GI Descrip.	NBS-LRR type resistance protein - rice (fragment) gi 2792220 gb AAB96985.1 (AF032688) NBS-LRR type resistance protein [Oryza sativa]		
Seq. No.	55840	Seq. ID	OJ000323_25.0420.C29
Gene No.	116956	Strand	+
Start	276	End	730
Name	OJ000323_25.0420.C29.o1.gs	Method	GENSCAN
Start	276	End	730
GI	none	Score	.98
Exons	276..424, 650..730		
Seq. No.	55840	Seq. ID	OJ000323_25.0420.C29
Gene No.	116957	Strand	-
Start	2193	End	4500
Name	OJ000323_25.0420.C29.o2.gs	Method	GENSCAN
Start	2193	End	4500
GI	none	Score	.76
Exons	2193..2477, 2512..2664, 3571..3638, 4279..4336, 4435..4500		
Seq. No.	55841	Seq. ID	OJ000323_25.0420.C34
Gene No.	116958	Strand	+
Start	1	End	766
Name	OJ000323_25.0420.C34.o1.np	Method	AAT/NAP
Start	1	End	766
GI	5824341	Score	57
Exons	1..27, 200..293, 681..766		
GI Descrip.	(AJ238846) SGP1 monomeric G-protein [Arabidopsis thaliana]		
Seq. No.	55841	Seq. ID	OJ000323_25.0420.C34
Gene No.	116958	Strand	+
Start	1	End	766
Name	OJ000323_25.0420.C34.o1.gs	Method	GENSCAN
Start	206	End	289
GI	none	Score	.92
Exons	206..289		
Seq. No.	55842	Seq. ID	OJ000323_25.0420.C36
Gene No.	116959	Strand	-

Start	322	End	676
Name	OJ000323_25.0420.C36.ol.gp	Method	AAT/GAP
Start	322	End	676
GI	4716885	Score	686
Exons	322..676		
Seq. No.	55842	Seq. ID	OJ000323_25.0420.C36
Gene No.	116960	Strand	-
Start	682	End	1539
Name	OJ000323_25.0420.C36.ol.tm	Method	TBLASTX:Maize
Start	637	End	852
GI	none	Score	123
Exons	637..852, 681..767, 686..850, 822..851		
Seq. No.	55842	Seq. ID	OJ000323_25.0420.C36
Gene No.	116960	Strand	-
Start	682	End	1539
Name	OJ000323_25.0420.C36.ol.np	Method	AAT/NAP
Start	682	End	1539
GI	5824341	Score	210
Exons	682..849, 1512..1539		
GI Descrip.	(AJ238846) SGPl monomeric G-protein [Arabidopsis thaliana]		
Seq. No.	55842	Seq. ID	OJ000323_25.0420.C36
Gene No.	116960	Strand	-
Start	682	End	1539
Name	OJ000323_25.0420.C36.ol.ts	Method	TBLASTX:Soybean
Start	685	End	852
GI	none	Score	192
Exons	685..852, 689..850		
Seq. No.	55843	Seq. ID	OJ000323_25.0420.C37
Gene No.	116961	Strand	-
Start	1	End	3924
Name	OJ000323_25.0420.C37.ol.np	Method	AAT/NAP
Start	1	End	741
GI	5824341	Score	178
Exons	1..223, 383..741		
GI Descrip.	(AJ238846) SGPl monomeric G-protein [Arabidopsis thaliana]		
Seq. No.	55843	Seq. ID	OJ000323_25.0420.C37
Gene No.	116961	Strand	-
Start	1	End	3924
Name	OJ000323_25.0420.C37.ol.gs	Method	GENSCAN
Start	103	End	3900
GI	none	Score	.49
Exons	103..223, 383..837, 1447..1563, 1915..2072, 3105..3279, 3852..3900		
Seq. No.	55843	Seq. ID	OJ000323_25.0420.C37
Gene No.	116961	Strand	-
Start	1	End	3924
Name	OJ000323_25.0420.C37.ol.gp	Method	AAT/GAP
Start	553	End	1073
GI	5038577	Score	912
Exons	553..1073		

Seq. No.	55843	Seq. ID	OJ000323_25.0420.C37
Gene No.	116961	Strand	-
Start	1	End	3924
Name	OJ000323_25.0420.C37.o2.np	Method	AAT/NAP
Start	3226	End	3924
GI	5042454	Score	241
Exons	3226..3279, 3529..3704, 3896..3924		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	55844	Seq. ID	OJ000323_25.0420.C38
Gene No.	116962	Strand	-
Start	1	End	1925
Name	OJ000323_25.0420.C38.o1.np	Method	AAT/NAP
Start	1	End	1925
GI	5042454	Score	1851
Exons	1..335, 965..1925		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	55844	Seq. ID	OJ000323_25.0420.C38
Gene No.	116962	Strand	-
Start	1	End	1925
Name	OJ000323_25.0420.C38.o1.tm	Method	TBLASTX:Maize
Start	964	End	1108
GI	none	Score	128
Exons	964..1107, 968..1108		

Seq. No.	55844	Seq. ID	OJ000323_25.0420.C38
Gene No.	116962	Strand	-
Start	1	End	1925
Name	OJ000323_25.0420.C38.o2.gs	Method	GENSCAN
Start	964	End	1735
GI	none	Score	.64
Exons	964..1327, 1371..1735		

Seq. No.	55844	Seq. ID	OJ000323_25.0420.C38
Gene No.	116962	Strand	-
Start	1	End	1925
Name	OJ000323_25.0420.C38.o1.tw	Method	TBLASTX:Wheat
Start	1610	End	1915
GI	none	Score	72
Exons	1610..1867, 1644..1850, 1850..1915		

Seq. No.	55845	Seq. ID	OJ000323_25.0420.C39
Gene No.	116963	Strand	+
Start	1742	End	1866
Name	OJ000323_25.0420.C39.o2.np	Method	AAT/NAP
Start	1742	End	1866
GI	7523512	Score	126
Exons	1742..1866		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	55845	Seq. ID	OJ000323_25.0420.C39
Gene No.	116964	Strand	-
Start	1	End	1642
Name	OJ000323_25.0420.C39.o1.np	Method	AAT/NAP
Start	1	End	1417
GI	5042454	Score	1398

Exons 1..779, 835..942, 1267..1417
 GI Descrip. (AC007789) putative polyprotein [Oryza sativa]

Seq. No.	55845	Seq. ID	OJ000323_25.0420.C39
Gene No.	116964	Strand	-
Start	1	End	1642
Name	OJ000323_25.0420.C39.o3.np	Method	AAT/NAP
Start	1	End	761
GI	7228457	Score	900
Exons	1..333, 395..761		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	55845	Seq. ID	OJ000323_25.0420.C39
Gene No.	116964	Strand	-
Start	1	End	1642
Name	OJ000323_25.0420.C39.o1.gs	Method	GENSCAN
Start	31	End	1642
GI	none	Score	.49
Exons	31..765, 872..1046, 1594..1642		

Seq. No.	55845	Seq. ID	OJ000323_25.0420.C39
Gene No.	116965	Strand	
Start	2108	End	2289
Name	OJ000323_25.0420.C39.o1.tw	Method	TBLASTX:Wheat
Start	2108	End	2289
GI	none	Score	127
Exons	2108..2281, 2122..2289		

Seq. No.	55846	Seq. ID	OJ000323_25.0420.C40
Gene No.	116966	Strand	+
Start	1	End	758
Name	OJ000323_25.0420.C40.o1.gp	Method	AAT/GAP
Start	1	End	187
GI	342_1.R1084	Score	318
Exons	1..187		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	55846	Seq. ID	OJ000323_25.0420.C40
Gene No.	116966	Strand	+
Start	1	End	758
Name	OJ000323_25.0420.C40.o1.np	Method	AAT/NAP
Start	1	End	758
GI	4680203	Score	271
Exons	1..347, 727..758		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	55846	Seq. ID	OJ000323_25.0420.C40
Gene No.	116966	Strand	+
Start	1	End	758
Name	OJ000323_25.0420.C40.o1.tw	Method	TBLASTX:Wheat
Start	1	End	183
GI	none	Score	73
Exons	1..63, 2..64, 2..70, 3..71, 64..159, 64..183, 65..163		

Seq. No.	55846	Seq. ID	OJ000323_25.0420.C40
Gene No.	116966	Strand	+
Start	1	End	758
Name	OJ000323_25.0420.C40.o2.gp	Method	AAT/GAP
Start	201	End	342
GI	21474_1.R1084	Score	243
Exons	201..342		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	55847	Seq. ID	OJ000323_25.0420.C41
Gene No.	116967	Strand	-
Start	504	End	561
Name	OJ000323_25.0420.C41.o1.gs	Method	GENSCAN
Start	504	End	561
GI	none	Score	.71
Exons	504..561		

Seq. No.	55848	Seq. ID	OJ000323_25.0420.C43
Gene No.	116968	Strand	-
Start	515	End	637
Name	OJ000323_25.0420.C43.o1.gs	Method	GENSCAN
Start	515	End	637
GI	none	Score	.7
Exons	515..637		

Seq. No.	55849	Seq. ID	OJ000323_25.0420.C44
Gene No.	116969	Strand	-
Start	585	End	2374
Name	OJ000323_25.0420.C44.o1.gs	Method	GENSCAN
Start	585	End	2374
GI	none	Score	.74
Exons	585..738, 793..925, 1616..1720, 1966..2374		

Seq. No.	55849	Seq. ID	OJ000323_25.0420.C44
Gene No.	116970	Strand	-
Start	4410	End	4627
Name	OJ000323_25.0420.C44.o2.gs	Method	GENSCAN
Start	4410	End	4627
GI	none	Score	.63
Exons	4410..4627		

Seq. No.	55849	Seq. ID	OJ000323_25.0420.C44
Gene No.	116971	Strand	-
Start	4599	End	4844
Name	OJ000323_25.0420.C44.o1.tm	Method	TBLASTX:Maize
Start	4599	End	4844
GI	none	Score	137
Exons	4599..4736, 4740..4844		

Seq. No.	55850	Seq. ID	OJ000323_25.0420.C45
Gene No.	116972	Strand	+
Start	1	End	3293
Name	OJ000323_25.0420.C45.o1.np	Method	AAT/NAP
Start	1	End	2049
GI	6069646	Score	973
Exons	1..761, 1061..2049		

GI Descrip. (AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]

Seq. No.	55850	Seq. ID	OJ000323_25.0420.C45
Gene No.	116972	Strand	+
Start	1	End	3293
Name	OJ000323_25.0420.C45.o3.np	Method	AAT/NAP
Start	1759	End	3293
GI	4680186	Score	153
Exons	1759..1866, 3142..3293		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	55850	Seq. ID	OJ000323_25.0420.C45
Gene No.	116973	Strand	-
Start	2365	End	3892
Name	OJ000323_25.0420.C45.o3.tm	Method	TBLASTX:Maize
Start	1	End	301
GI	none	Score	303
Exons	1..294, 2..301		

Seq. No.	55850	Seq. ID	OJ000323_25.0420.C45
Gene No.	116973	Strand	-
Start	2365	End	3892
Name	OJ000323_25.0420.C45.o4.tw	Method	TBLASTX:Wheat
Start	197	End	502
GI	none	Score	177
Exons	197..502, 388..492		

Seq. No.	55850	Seq. ID	OJ000323_25.0420.C45
Gene No.	116973	Strand	-
Start	2365	End	3892
Name	OJ000323_25.0420.C45.o1.tm	Method	TBLASTX:Maize
Start	302	End	993
GI	none	Score	360
Exons	302..802, 340..444, 523..627, 880..993		

Seq. No.	55850	Seq. ID	OJ000323_25.0420.C45
Gene No.	116973	Strand	-
Start	2365	End	3892
Name	OJ000323_25.0420.C45.o1.tw	Method	TBLASTX:Wheat
Start	617	End	1074
GI	none	Score	156
Exons	617..802, 619..801, 880..936, 916..1074		

Seq. No.	55850	Seq. ID	OJ000323_25.0420.C45
Gene No.	116973	Strand	-
Start	2365	End	3892
Name	OJ000323_25.0420.C45.o4.tm	Method	TBLASTX:Maize
Start	1005	End	1230
GI	none	Score	228
Exons	1005..1229, 1006..1230		

Seq. No.	55850	Seq. ID	OJ000323_25.0420.C45
Gene No.	116973	Strand	-

Start	2365	End	3892
Name	OJ000323_25.0420.C45.o2.tw	Method	TBLASTX:Wheat
Start	1234	End	1623
GI	none	Score	95
Exons	1234..1413, 1461..1604, 1462..1623		
Seq. No.	55850	Seq. ID	OJ000323_25.0420.C45
Gene No.	116973	Strand	-
Start	2365	End	3892
Name	OJ000323_25.0420.C45.o2.tm	Method	TBLASTX:Maize
Start	1562	End	1842
GI	none	Score	68
Exons	1562..1687, 1563..1760, 1567..1842		
Seq. No.	55850	Seq. ID	OJ000323_25.0420.C45
Gene No.	116973	Strand	-
Start	2365	End	3892
Name	OJ000323_25.0420.C45.o3.tw	Method	TBLASTX:Wheat
Start	1630	End	2031
GI	none	Score	118
Exons	1630..1779, 1858..2031		
Seq. No.	55850	Seq. ID	OJ000323_25.0420.C45
Gene No.	116973	Strand	-
Start	2365	End	3892
Name	OJ000323_25.0420.C45.o2.gs	Method	GENSCAN
Start	2365	End	3892
GI	none	Score	.43
Exons	2365..2458, 2503..2733, 3120..3147, 3842..3892		
Seq. No.	55851	Seq. ID	OJ000323_25.0420.C47
Gene No.	116974	Strand	-
Start	1117	End	1794
Name	OJ000323_25.0420.C47.o1.gs	Method	GENSCAN
Start	1117	End	1794
GI	none	Score	.44
Exons	1117..1794		
Seq. No.	55852	Seq. ID	OJ000323_25.0420.C48
Gene No.	116975	Strand	+
Start	5787	End	6329
Name	OJ000323_25.0420.C48.o3.gs	Method	GENSCAN
Start	5787	End	6329
GI	none	Score	.72
Exons	5787..5923, 6056..6329		
Seq. No.	55852	Seq. ID	OJ000323_25.0420.C48
Gene No.	116976	Strand	-
Start	4906	End	5142
Name	OJ000323_25.0420.C48.o2.gs	Method	GENSCAN
Start	4906	End	5142
GI	none	Score	.46
Exons	4906..5021, 5055..5142		
Seq. No.	55853	Seq. ID	OJ000323_25.0420.C49
Gene No.	116977	Strand	+
Start	1	End	963

Name	OJ000323_25.0420.C49.o1.np	Method	AAT/NAP
Start	1	End	963
GI	4581139	Score	256
Exons	1..73, 169..503, 843..963		
GI Descrip.	(AC006919) putative ABC transporter [Arabidopsis thaliana]		
Seq. No.	55853	Seq. ID	OJ000323_25.0420.C49
Gene No.	116977	Strand	+
Start	1	End	963
Name	OJ000323_25.0420.C49.o1.gs	Method	GENSCAN
Start	115	End	963
GI	none	Score	.96
Exons	115..503, 843..963		
Seq. No.	55854	Seq. ID	OJ000323_25.0420.C50
Gene No.	116978	Strand	+
Start	440	End	527
Name	OJ000323_25.0420.C50.o1.gs	Method	GENSCAN
Start	440	End	527
GI	none	Score	.5
Exons	440..527		
Seq. No.	55855	Seq. ID	OJ000323_25.0420.C52
Gene No.	116979	Strand	+
Start	1	End	1252
Name	OJ000323_25.0420.C52.o1.np	Method	AAT/NAP
Start	1	End	1252
GI	6606266	Score	391
Exons	1..1252		
GI Descrip.	(AF158634) Vrgal [Triticum ventricosum]		
Seq. No.	55855	Seq. ID	OJ000323_25.0420.C52
Gene No.	116979	Strand	+
Start	1	End	1252
Name	OJ000323_25.0420.C52.o1.ts	Method	TBLASTX:Soybean
Start	335	End	789
GI	none	Score	102
Exons	335..487, 367..489, 497..541, 571..789, 578..784		
Seq. No.	55855	Seq. ID	OJ000323_25.0420.C52
Gene No.	116979	Strand	+
Start	1	End	1252
Name	OJ000323_25.0420.C52.o1.tm	Method	TBLASTX:Maize
Start	419	End	940
GI	none	Score	47
Exons	419..475, 542..781, 824..940		
Seq. No.	55856	Seq. ID	OJ000323_25.0420.C53
Gene No.	116980	Strand	+
Start	1	End	1182
Name	OJ000323_25.0420.C53.o1.np	Method	AAT/NAP
Start	1	End	1182
GI	7510076	Score	107
Exons	1..182, 1008..1182		
GI Descrip.	hypothetical protein Y50E8A.i - Caenorhabditis elegans		
Seq. No.	55857	Seq. ID	OJ000323_25.0420.C54

Gene No.	116981	Strand	+
Start	1	End	541
Name	OJ000323_25.0420.C54.o1.gp	Method	AAT/GAP
Start	1	End	541
GI	none	Score	725
Exons	1..72, 222..541		
Seq. No.	55858	Seq. ID	OJ000323_25.0420.C55
Gene No.	116982	Strand	+
Start	1	End	375
Name	OJ000323_25.0420.C55.o1.np	Method	AAT/NAP
Start	1	End	375
GI	7489454	Score	149
Exons	1..375		
GI Descrip.	bacterial blight-resistance protein Xa1 - rice gil2943742 dbj BAA25068.1 (AB002266) XA1 [Oryza sativa]		
Seq. No.	55859	Seq. ID	OJ000313_26.0420.C3
Gene No.	116983	Strand	+
Start	778	End	4416
Name	OJ000313_26.0420.C3.o1.np	Method	AAT/NAP
Start	778	End	2973
GI	3935185	Score	623
Exons	778..1142, 2044..2973		
GI Descrip.	(AC004557) F17L21.28 [Arabidopsis thaliana]		
Seq. No.	55859	Seq. ID	OJ000313_26.0420.C3
Gene No.	116983	Strand	+
Start	778	End	4416
Name	OJ000313_26.0420.C3.o1.gs	Method	GENSCAN
Start	783	End	4416
GI	none	Score	.83
Exons	783..1147, 2082..2946, 4216..4416		
Seq. No.	55859	Seq. ID	OJ000313_26.0420.C3
Gene No.	116984	Strand	-
Start	5289	End	6512
Name	OJ000313_26.0420.C3.o1.tm	Method	TBLASTX:Maize
Start	870	End	1141
GI	none	Score	97
Exons	870..974, 925..981, 980..1141, 981..1133		
Seq. No.	55859	Seq. ID	OJ000313_26.0420.C3
Gene No.	116984	Strand	-
Start	5289	End	6512
Name	OJ000313_26.0420.C3.o1.tc	Method	TBLASTX:Cress
Start	2598	End	2808
GI	none	Score	216
Exons	2598..2807, 2599..2808		
Seq. No.	55859	Seq. ID	OJ000313_26.0420.C3
Gene No.	116984	Strand	-
Start	5289	End	6512
Name	OJ000313_26.0420.C3.o2.gs	Method	GENSCAN
Start	5289	End	6512
GI	none	Score	.87
Exons	5289..5426, 5528..5675, 6281..6380, 6456..6512		

Seq. No.	55860	Seq. ID	OJ000313_26.0420.C4
Gene No.	116985	Strand	+
Start	970	End	1098
Name	OJ000313_26.0420.C4.o1.gs	Method	GENSCAN
Start	970	End	1098
GI	none	Score	.95
Exons	970..1098		

Seq. No.	55860	Seq. ID	OJ000313_26.0420.C4
Gene No.	116986	Strand	-
Start	2164	End	2265
Name	OJ000313_26.0420.C4.o2.gs	Method	GENSCAN
Start	2164	End	2265
GI	none	Score	.53
Exons	2164..2265		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116987	Strand	+
Start	4816	End	10026
Name	OJ000313_26.0420.C5.o1.np	Method	AAT/NAP
Start	4816	End	10026
GI	7486518	Score	1108
Exons	4816..4883, 6244..7567, 9339..9394, 10000..10026		
GI Descrip.	hypothetical protein F6H11.10 - Arabidopsis thaliana gi 2827699 emb CAA16672.1 (AL021684) predicted protein [Arabidopsis thaliana]		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116987	Strand	+
Start	4816	End	10026
Name	OJ000313_26.0420.C5.o1.gp	Method	AAT/GAP
Start	5793	End	6189
GI	none	Score	750
Exons	5793..6189		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116988	Strand	+
Start	11257	End	11676
Name	OJ000313_26.0420.C5.o2.gp	Method	AAT/GAP
Start	11257	End	11676
GI	uC-osflM202074d11a1	Score	427
Exons	11257..11395, 11481..11676		
GI Descrip.	'6041855/gb AAF02164.1 AC009853_24 3.0e-22 (AC009853) unknown protein [Arabidopsis thaliana]'		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116989	Strand	+
Start	8725	End	14431
Name	OJ000313_26.0420.C5.o3.gs	Method	GENSCAN
Start	8725	End	14431
GI	none	Score	.73
Exons	8725..8794, 8941..9345, 10169..10332, 10940..11025, 11781..11916, 12029..12191, 12913..13002, 13065..13134, 13936..14431		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
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Gene No.	116989	Strand	-
Start	8725	End	14431
Name	OJ000313_26.0420.C5.o3.gp	Method	AAT/GAP
Start	11613	End	12161
GI	LIB3432-014-P1-K1-C4	Score	822
Exons	11613..11916, 12029..12161		
GI Descrip.	'3445204/gb AAC32434.1 2.0e-45 (AC004786) putative GTP-binding protein [Arabidopsis thaliana]'		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116989	Strand	-
Start	8725	End	14431
Name	OJ000313_26.0420.C5.o2.np	Method	AAT/NAP
Start	11710	End	14152
GI	6226480	Score	843
Exons	11710..11916, 12029..12191, 13065..13134, 13936..14152		
GI Descrip.	HYPOTHETIC GTP-BINDING PROTEIN T20K9.8 gi 3445204 gb AAC32434.1 (AC004786) putative nucleotide-binding protein [Arabidopsis thaliana]		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116989	Strand	-
Start	8725	End	14431
Name	OJ000313_26.0420.C5.o4.gp	Method	AAT/GAP
Start	12641	End	13173
GI	uC-osflM202123a09b1	Score	1017
Exons	12641..13173		
GI Descrip.	'3445196/gb AC004786.1 ATAC004786 6.0e-10 Arabidopsis thaliana chromosome II BAC T20K9 genomic sequence, complete sequence'		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116990	Strand	-
Start	15964	End	18921
Name	OJ000313_26.0420.C5.o1.tw	Method	TBLASTX:Wheat
Start	5954	End	6292
GI	none	Score	63
Exons	5954..6001, 5955..6065, 5957..5998, 6020..6088, 6021..6098, 6054..6095, 6094..6132, 6104..6130, 6111..6131, 6207..6269, 6208..6291, 6211..6291, 6212..6292		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116990	Strand	-
Start	15964	End	18921
Name	OJ000313_26.0420.C5.o3.tm	Method	TBLASTX:Maize
Start	6039	End	6381
GI	none	Score	78
Exons	6039..6107, 6051..6107, 6106..6132, 6208..6381, 6208..6381		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116990	Strand	-
Start	15964	End	18921
Name	OJ000313_26.0420.C5.o1.tc	Method	TBLASTX:Cress
Start	6244	End	6582
GI	none	Score	79
Exons	6244..6294, 6406..6582, 6408..6581		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
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Gene No.	116990	Strand	-
Start	15964	End	18921
Name	OJ000313_26.0420.C5.o5.ts	Method	TBLASTX:Soybean
Start	6244	End	6516
GI	none	Score	78
Exons	6244..6294, 6337..6375, 6405..6515, 6406..6516		
Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116990	Strand	-
Start	15964	End	18921
Name	OJ000313_26.0420.C5.o2.tm	Method	TBLASTX:Maize
Start	6388	End	6729
GI	none	Score	483
Exons	6388..6597, 6405..6722, 6406..6726, 6661..6729		
Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116990	Strand	-
Start	15964	End	18921
Name	OJ000313_26.0420.C5.o1.ts	Method	TBLASTX:Soybean
Start	6522	End	7038
GI	none	Score	176
Exons	6522..6671, 6526..6687, 6772..6888, 6786..6905, 6897..7037, 6898..7038		
Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116990	Strand	-
Start	15964	End	18921
Name	OJ000313_26.0420.C5.o1.tm	Method	TBLASTX:Maize
Start	6772	End	7295
GI	none	Score	625
Exons	6772..7194, 6780..7193, 6805..7293, 6968..7195, 7140..7295		
Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116990	Strand	-
Start	15964	End	18921
Name	OJ000313_26.0420.C5.o4.ts	Method	TBLASTX:Soybean
Start	7249	End	7481
GI	none	Score	205
Exons	7249..7479, 7287..7481		
Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116990	Strand	-
Start	15964	End	18921
Name	OJ000313_26.0420.C5.o3.tc	Method	TBLASTX:Cress
Start	7258	End	7593
GI	none	Score	252
Exons	7258..7593		
Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116990	Strand	-
Start	15964	End	18921
Name	OJ000313_26.0420.C5.o2.tc	Method	TBLASTX:Cress
Start	11711	End	14048
GI	none	Score	109
Exons	11711..11857, 11716..11877, 11716..11883, 11860..11919, 11873..11899, 12026..12067, 12077..12142, 13061..13135, 13062..13136, 13934..14044, 13935..14048		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116990	Strand	-
Start	15964	End	18921
Name	OJ000313_26.0420.C5.o3.ts	Method	TBLASTX:Soybean
Start	11722	End	12091
GI	none	Score	36
Exons	11722..11763, 11723..11767, 11770..11883, 11771..11866, 11860..11919, 12026..12091		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116990	Strand	-
Start	15964	End	18921
Name	OJ000313_26.0420.C5.o4.tm	Method	TBLASTX:Maize
Start	11860	End	14167
GI	none	Score	47
Exons	11860..11919, 11861..11902, 12026..12190, 12027..12167, 12030..12191, 13061..13135, 13062..13136, 13912..14052, 13934..14167, 13935..14111		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116990	Strand	-
Start	15964	End	18921
Name	OJ000313_26.0420.C5.o2.ts	Method	TBLASTX:Soybean
Start	13925	End	14218
GI	none	Score	92
Exons	13925..14059, 13934..14089, 13935..14090, 14063..14149, 14064..14138, 14171..14218		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116990	Strand	-
Start	15964	End	18921
Name	OJ000313_26.0420.C5.o4.gs	Method	GENSCAN
Start	15964	End	18921
GI	none	Score	.85
Exons	15964..16092, 16862..16970, 18105..18165, 18627..18681, 18805..18921		

Seq. No.	55861	Seq. ID	OJ000313_26.0420.C5
Gene No.	116990	Strand	-
Start	15964	End	18921
Name	OJ000313_26.0420.C5.o3.np	Method	AAT/NAP
Start	18493	End	18912
GI	3445203	Score	96
Exons	18493..18590, 18748..18912		
GI Descrip.	(AC004786) unknown protein [Arabidopsis thaliana]		

Seq. No.	55862	Seq. ID	OJ000313_26.0420.C6
Gene No.	116991	Strand	-
Start	1598	End	2008
Name	OJ000313_26.0420.C6.o1.gs	Method	GENSCAN
Start	1598	End	2008
GI	none	Score	.43
Exons	1598..2008		

Seq. No.	55863	Seq. ID	OJ000313_26.0420.C7
Gene No.	116992	Strand	+

Start	419	End	1566
Name	OJ000313_26.0420.C7.ol.gs	Method	GENSCAN
Start	419	End	1190
GI	none	Score	.81
Exons	419..502, 801..1190		

Seq. No.	55863	Seq. ID	OJ000313_26.0420.C7
Gene No.	116992	Strand	+
Start	419	End	1566
Name	OJ000313_26.0420.C7.ol.np	Method	AAT/NAP
Start	583	End	1566
GI	6069646	Score	459
Exons	583..1566		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	55863	Seq. ID	OJ000313_26.0420.C7
Gene No.	116992	Strand	+
Start	419	End	1566
Name	OJ000313_26.0420.C7.ol.tm	Method	TBLASTX:Maize
Start	924	End	1473
GI	none	Score	102
Exons	924..1073, 1092..1322, 1097..1219, 1098..1250, 1372..1473		

Seq. No.	55863	Seq. ID	OJ000313_26.0420.C7
Gene No.	116992	Strand	+
Start	419	End	1566
Name	OJ000313_26.0420.C7.ol.tw	Method	TBLASTX:Wheat
Start	1101	End	1289
GI	none	Score	186
Exons	1101..1289		

Seq. No.	55864	Seq. ID	OJ000313_26.0420.C8
Gene No.	116993	Strand	+
Start	492	End	1274
Name	OJ000313_26.0420.C8.ol.gs	Method	GENSCAN
Start	492	End	1274
GI	none	Score	.89
Exons	492..640, 1169..1274		

Seq. No.	55864	Seq. ID	OJ000313_26.0420.C8
Gene No.	116994	Strand	+
Start	3067	End	17735
Name	OJ000313_26.0420.C8.o2.gs	Method	GENSCAN
Start	3067	End	17735
GI	none	Score	.67
Exons	3067..3211, 3406..3489, 3873..4037, 5236..5370, 5771..5794, 6380..6449, 6710..6853, 7332..7448, 8323..8396, 9215..9372, 9699..9802, 12421..12505, 13844..14042, 14225..14362, 14444..14984, 15465..15508, 15955..16043, 16139..16212, 16495..16571, 17080..17735		

Seq. No.	55864	Seq. ID	OJ000313_26.0420.C8
Gene No.	116994	Strand	+

Start	3067	End	17735
Name	OJ000313_26.0420.C8.ol.np	Method	AAT/NAP
Start	13993	End	17732
GI	1171429	Score	766
Exons	13993..14140, 14230..14362, 14419..14984, 15644..15726, 15946..16043, 16139..16212, 16334..16384, 16495..16571, 17080..17309, 17540..17732		
GI Descrip.	(U44028) CKC [Arabidopsis thaliana]		

Seq. No.	55864	Seq. ID	OJ000313_26.0420.C8
Gene No.	116994	Strand	+
Start	3067	End	17735
Name	OJ000313_26.0420.C8.ol.tc	Method	TBLASTX:Cress
Start	14296	End	17228
GI	none	Score	87
Exons	14296..14361, 14458..14487, 14916..14984, 14923..14985, 15638..15724, 15639..15725, 15951..16040, 16142..16222, 16180..16212, 16331..16384, 16332..16385, 16492..16581, 16493..16582, 17058..17228, 17078..17227		

Seq. No.	55864	Seq. ID	OJ000313_26.0420.C8
Gene No.	116994	Strand	+
Start	3067	End	17735
Name	OJ000313_26.0420.C8.ol.ts	Method	TBLASTX:Soybean
Start	14920	End	17213
GI	none	Score	85
Exons	14920..14985, 15639..15725, 15644..15724, 15951..16046, 16139..16222, 16331..16384, 16332..16385, 16492..16581, 16493..16582, 17058..17213, 17079..17213		

Seq. No.	55864	Seq. ID	OJ000313_26.0420.C8
Gene No.	116994	Strand	+
Start	3067	End	17735
Name	OJ000313_26.0420.C8.ol.tm	Method	TBLASTX:Maize
Start	15951	End	17171
GI	none	Score	129
Exons	15951..16046, 15951..16046, 16139..16222, 16332..16385, 16492..16566, 16493..16582, 17061..17171		

Seq. No.	55865	Seq. ID	OJ000313_26.0420.C9
Gene No.	116995	Strand	-
Start	1	End	1159
Name	OJ000313_26.0420.C9.ol.np	Method	AAT/NAP
Start	1	End	1159
GI	6006359	Score	66
Exons	1..19, 695..791, 1129..1159		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	55865	Seq. ID	OJ000313_26.0420.C9
Gene No.	116995	Strand	-
Start	1	End	1159
Name	OJ000313_26.0420.C9.ol.gs	Method	GENSCAN
Start	20	End	865
GI	none	Score	53
Exons	20..151, 529..586, 642..865		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
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Gene No.	116996	Strand	+
Start	1	End	1577
Name	OJ000313_26.0420.C10.o1.np	Method	AAT/NAP
Start	1	End	1565
GI	7487298	Score	112
Exons	1..212, 926..973, 1475..1565		
GI Descrip.	hypothetical protein T21L14.22 - Arabidopsis thaliana gi 2702278 gb AAB91981.1 (AC003033) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	116996	Strand	+
Start	1	End	1577
Name	OJ000313_26.0420.C10.o1.gs	Method	GENSCAN
Start	135	End	1577
GI	none	Score	.82
Exons	135..186, 900..973, 1475..1577		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	116997	Strand	+
Start	3938	End	4072
Name	OJ000313_26.0420.C10.o2.gs	Method	GENSCAN
Start	3938	End	4072
GI	none	Score	.73
Exons	3938..4072		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	116998	Strand	+
Start	7911	End	10683
Name	OJ000313_26.0420.C10.o1.gp	Method	AAT/GAP
Start	7911	End	10683
GI	598_2.R1084	Score	1203
Exons	7911..7943, 8146..8323, 8415..8604, 10113..10179, 10455..10683		
GI Descrip.	'485518/pir S33633 6.0e-70 ubiquitin / ribosomal protein CEP52 - rice >gi_303857_dbj_BAA02154_ (D12629) ubiquitin/ribosomal polyprotein [Oryza sativa]'		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	116998	Strand	+
Start	7911	End	10683
Name	OJ000313_26.0420.C10.o3.np	Method	AAT/NAP
Start	8221	End	10481
GI	485518	Score	577
Exons	8221..8323, 8415..8604, 10113..10179, 10455..10481		
GI Descrip.	ubiquitin / ribosomal protein CEP52 - rice gi 303857 dbj BAA02154.1 (D12629) ubiquitin/ribosomal polyprotein [Oryza sativa]		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	116998	Strand	+
Start	7911	End	10683
Name	OJ000313_26.0420.C10.o4.gs	Method	GENSCAN
Start	8221	End	10484
GI	none	Score	.9
Exons	8221..8323, 8415..8604, 8886..9011, 10113..10179, 10455..10484		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
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Gene No.	116999	Strand	-
Start	4399	End	7780
Name	OJ000313_26.0420.C10.o3.gs	Method	GENSCAN
Start	4399	End	7780
GI	none	Score	.81
Exons	4399..4992, 5090..5281, 5359..5404, 5663..5987, 7193..7689, 7779..7780		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	116999	Strand	-
Start	4399	End	7780
Name	OJ000313_26.0420.C10.o2.np	Method	AAT/NAP
Start	4402	End	5601
GI	1491617	Score	789
Exons	4402..4992, 5090..5281, 5368..5601		
GI Descrip.	(X99952) peroxidase [Arabidopsis thaliana]		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-
Start	11630	End	13163
Name	OJ000313_26.0420.C10.o4.tw	Method	TBLASTX:Wheat
Start	4391	End	4566
GI	none	Score	115
Exons	4391..4501, 4408..4566, 4412..4540		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-
Start	11630	End	13163
Name	OJ000313_26.0420.C10.o1.tc	Method	TBLASTX:Cress
Start	4397	End	5505
GI	none	Score	110
Exons	4397..4555, 4408..4554, 4558..4686, 4684..4878, 4712..4876, 4924..5001, 4925..5029, 5090..5287, 5097..5288, 5368..5505, 5369..5476		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-
Start	11630	End	13163
Name	OJ000313_26.0420.C10.o1.ts	Method	TBLASTX:Soybean
Start	4405	End	5566
GI	none	Score	108
Exons	4405..4548, 4409..4549, 4564..4677, 4684..4875, 4715..4861, 4934..4990, 4936..4989, 5099..5287, 5100..5288, 5371..5505, 5372..5566		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-
Start	11630	End	13163
Name	OJ000313_26.0420.C10.o1.tm	Method	TBLASTX:Maize
Start	4408	End	5514
GI	none	Score	88
Exons	4408..4557, 4409..4549, 4552..4668, 4696..4878, 4712..4861, 4918..4977, 4924..4989, 5087..5287, 5088..5288, 5369..5500, 5371..5514		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-

Start	11630	End	13163
Name	OJ000313_26.0420.C10.o2.tw	Method	TBLASTX:Wheat
Start	4579	End	4989
GI	none	Score	68
Exons	4579..4752, 4763..4825, 4777..4875, 4802..4852, 4936..4989		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-
Start	11630	End	13163
Name	OJ000313_26.0420.C10.o3.tw	Method	TBLASTX:Wheat
Start	5096	End	5493
GI	none	Score	79
Exons	5096..5194, 5109..5189, 5213..5287, 5369..5482, 5371..5493		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-
Start	11630	End	13163
Name	OJ000313_26.0420.C10.o2.tc	Method	TBLASTX:Cress
Start	8214	End	10184
GI	none	Score	137
Exons	8214..8318, 8214..8336, 8215..8325, 8410..8607, 8414..8605, 10110..10184, 10111..10182		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-
Start	11630	End	13163
Name	OJ000313_26.0420.C10.o2.tm	Method	TBLASTX:Maize
Start	8214	End	10190
GI	none	Score	173
Exons	8214..8321, 8214..8336, 8218..8325, 8410..8607, 8414..8605, 10064..10177, 10110..10190, 10111..10182		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-
Start	11630	End	13163
Name	OJ000313_26.0420.C10.o1.tw	Method	TBLASTX:Wheat
Start	8217	End	8607
GI	none	Score	175
Exons	8217..8336, 8218..8325, 8220..8327, 8220..8336, 8221..8325, 8221..8325, 8221..8274, 8223..8330, 8223..8327, 8279..8323, 8410..8535, 8410..8535, 8410..8541, 8410..8607, 8410..8541, 8414..8542, 8414..8605, 8414..8542		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-
Start	11630	End	13163
Name	OJ000313_26.0420.C10.o2.ts	Method	TBLASTX:Soybean
Start	8218	End	10184
GI	none	Score	175
Exons	8218..8325, 8220..8336, 8410..8607, 8414..8605, 10110..10184, 10111..10182		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-
Start	11630	End	13163
Name	OJ000313_26.0420.C10.o5.gs	Method	GENSCAN
Start	11630	End	13163

GI	none	Score	.68
Exons	11630..11776, 12104..12445, 12538..12732, 12828..13163		
Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-
Start	11630	End	13163
Name	OJ000313_26.0420.C10.o3.tm	Method	TBLASTX:Maize
Start	11639	End	12600
GI	none	Score	128
Exons	11639..11779, 11640..11777, 11648..11818, 11674..11817, 12101..12214, 12101..12226, 12331..12417, 12331..12414, 12397..12444, 12424..12447, 12537..12599, 12537..12599, 12541..12600		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-
Start	11630	End	13163
Name	OJ000313_26.0420.C10.o4.np	Method	AAT/NAP
Start	11639	End	12674
GI	7439526	Score	552
Exons	11639..11776, 12104..12220, 12331..12445, 12538..12674		
GI Descrip.	hemoglobin 2 - rice gi 2058496 gb AAC49881.1 (U76028) hemoglobin 2 [Oryza sativa] gi 2058502 gb AAC49884.1 (U76031) hemoglobin 2 [Oryza sativa]		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-
Start	11630	End	13163
Name	OJ000313_26.0420.C10.o3.ts	Method	TBLASTX:Soybean
Start	11645	End	12626
GI	none	Score	89
Exons	11645..11725, 11646..11726, 11732..11779, 12101..12226, 12102..12221, 12331..12447, 12332..12451, 12537..12626, 12538..12621		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-
Start	11630	End	13163
Name	OJ000313_26.0420.C10.o3.tc	Method	TBLASTX:Cress
Start	11649	End	12651
GI	none	Score	72
Exons	11649..11726, 11651..11725, 11727..11777, 11732..11794, 12101..12217, 12322..12462, 12331..12447, 12537..12644, 12556..12651		

Seq. No.	55866	Seq. ID	OJ000313_26.0420.C10
Gene No.	117000	Strand	-
Start	11630	End	13163
Name	OJ000313_26.0420.C10.o2.gp	Method	AAT/GAP
Start	12331	End	12785
GI	LIB3434-013-P1-K1-C12	Score	674
Exons	12331..12445, 12538..12785		
GI Descrip.	'2058496 5.0e-28 (U76028) hemoglobin 2 [Oryza sativa] >gi_2058502 (U76031) hemoglobin 2 [Oryza sativa]'		

Seq. No.	55867	Seq. ID	OJ000313_26.0420.C11
Gene No.	117001	Strand	-

Start	1057	End	1909
Name	OJ000313_26.0420.C11.o1.gs	Method	GENSCAN
Start	1057	End	1909
GI	none	Score	.96
Exons	1057..1200, 1289..1405, 1499..1625, 1776..1909		

Seq. No.	55867	Seq. ID	OJ000313_26.0420.C11
Gene No.	117002	Strand	-
Start	4789	End	5724
Name	OJ000313_26.0420.C11.o1.tm	Method	TBLASTX:Maize
Start	1049	End	5549
GI	none	Score	133
Exons	1049..1201, 1063..1203, 1064..1201, 1072..1209, 1283..1402, 1283..1405, 1287..1406, 1490..1567, 1499..1567, 1589..1624, 1604..1636, 1775..1837, 1775..1837, 1776..1838, 4781..4930, 4793..4930, 4798..4968, 4798..4932, 5042..5167, 5043..5162, 5249..5341, 5257..5343, 5323..5397, 5338..5373, 5487..5549, 5487..5549		

Seq. No.	55867	Seq. ID	OJ000313_26.0420.C11
Gene No.	117002	Strand	-
Start	4789	End	5724
Name	OJ000313_26.0420.C11.o1.ts	Method	TBLASTX:Soybean
Start	1057	End	5576
GI	none	Score	61
Exons	1057..1149, 1057..1149, 1070..1186, 1151..1201, 1156..1203, 1283..1405, 1287..1406, 1485..1562, 1490..1567, 1571..1636, 1775..1864, 1779..1859, 4766..4915, 4798..4896, 4885..4932, 4989..5162, 5042..5167, 5249..5383, 5257..5373, 5487..5576, 5490..5576		

Seq. No.	55867	Seq. ID	OJ000313_26.0420.C11
Gene No.	117002	Strand	-
Start	4789	End	5724
Name	OJ000313_26.0420.C11.o1.tc	Method	TBLASTX:Cress
Start	1073	End	5582
GI	none	Score	70
Exons	1073..1186, 1075..1149, 1156..1203, 1283..1402, 1287..1322, 1490..1567, 1571..1633, 1775..1882, 1776..1877, 4802..4915, 4804..4896, 4885..4932, 5042..5158, 5043..5156, 5257..5382, 5258..5374, 5487..5582		

Seq. No.	55867	Seq. ID	OJ000313_26.0420.C11
Gene No.	117002	Strand	-
Start	4789	End	5724
Name	OJ000313_26.0420.C11.o1.gp	Method	AAT/GAP
Start	4556	End	5724
GI	1029_2.R1084	Score	1496
Exons	4556..4929, 5045..5161, 5257..5371, 5488..5724		
GI Descrip.	'2058498 2.0e-89 (U76029) hemoglobin 1 [Oryza sativa] >gi_2058500 (U76030) hemoglobin 1 [Oryza sativa]'		

Seq. No.	55867	Seq. ID	OJ000313_26.0420.C11
Gene No.	117002	Strand	-
Start	4789	End	5724
Name	OJ000313_26.0420.C11.o2.gs	Method	GENSCAN
Start	4789	End	5615

GI	none	Score	.96
Exons	4789..4929, 5045..5161, 5257..5371, 5488..5615		
Seq. No.	55867	Seq. ID	OJ000313_26.0420.C11
Gene No.	117002	Strand	-
Start	4789	End	5724
Name	OJ000313_26.0420.C11.o1.np	Method	AAT/NAP
Start	4792	End	5615
GI	7439528	Score	744
Exons	4792..4929, 5045..5161, 5257..5371, 5488..5615		
GI Descrip.	hemoglobin 1 - rice gi 2058498 gb AAC49882.1 (U76029)		
	hemoglobin 1 [Oryza sativa] gi 2058500 gb AAC49883.1 (U76030)		
	hemoglobin 1 [Oryza sativa]		

Seq. No.	55868	Seq. ID	OJ000313_26.0420.C12
Gene No.	117003	Strand	-
Start	1	End	4386
Name	OJ000313_26.0420.C12.o1.np	Method	AAT/NAP
Start	1	End	1467
GI	7486263	Score	232
Exons	1..59, 322..411, 509..565, 645..744, 820..927, 958..1211, 1331..1467		
GI Descrip.	hypothetical protein F27L4.12 - Arabidopsis thaliana gi 3152613 gb AAC17092.1 (AC004482) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55868	Seq. ID	OJ000313_26.0420.C12
Gene No.	117003	Strand	-
Start	1	End	4386
Name	OJ000313_26.0420.C12.o2.np	Method	AAT/NAP
Start	1	End	3377
GI	7486263	Score	234
Exons	1..59, 322..411, 509..565, 645..744, 820..927, 958..1211, 1331..1450, 3315..3377		
GI Descrip.	hypothetical protein F27L4.12 - Arabidopsis thaliana gi 3152613 gb AAC17092.1 (AC004482) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55868	Seq. ID	OJ000313_26.0420.C12
Gene No.	117003	Strand	-
Start	1	End	4386
Name	OJ000313_26.0420.C12.o2.tm	Method	TBLASTX:Maize
Start	24	End	882
GI	none	Score	87
Exons	24..62, 319..459, 322..402, 323..436, 485..565, 492..566, 645..740, 645..743, 646..747, 815..880, 820..882, 822..881		

Seq. No.	55868	Seq. ID	OJ000313_26.0420.C12
Gene No.	117003	Strand	-
Start	1	End	4386
Name	OJ000313_26.0420.C12.o1.gs	Method	GENSCAN
Start	816	End	4386
GI	none	Score	.61
Exons	816..1226, 1343..1780, 1892..2008, 2351..2485, 2724..2796, 3295..3390, 4183..4268, 4273..4386		

Seq. No.	55868	Seq. ID	OJ000313_26.0420.C12
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Gene No.	117003	Strand	-
Start	1	End	4386
Name	OJ000313_26.0420.C12.o3.tm	Method	TBLASTX:Maize
Start	1083	End	1427
GI	none	Score	112
Exons	1083..1229, 1084..1227, 1334..1399, 1335..1427		

Seq. No.	55868	Seq. ID	OJ000313_26.0420.C12
Gene No.	117003	Strand	-
Start	1	End	4386
Name	OJ000313_26.0420.C12.o1.ts	Method	TBLASTX:Soybean
Start	1547	End	2011
GI	none	Score	68
Exons	1547..1795, 1644..1730, 1892..2011		

Seq. No.	55868	Seq. ID	OJ000313_26.0420.C12
Gene No.	117003	Strand	-
Start	1	End	4386
Name	OJ000313_26.0420.C12.o1.tm	Method	TBLASTX:Maize
Start	1651	End	1986
GI	none	Score	123
Exons	1651..1743, 1652..1783, 1655..1789, 1875..1985, 1892..1984, 1894..1986		

Seq. No.	55868	Seq. ID	OJ000313_26.0420.C12
Gene No.	117003	Strand	-
Start	1	End	4386
Name	OJ000313_26.0420.C12.o1.gp	Method	AAT/GAP
Start	1758	End	2274
GI	none	Score	1026
Exons	1758..2274		

Seq. No.	55869	Seq. ID	OJ000313_26.0420.C13
Gene No.	117004	Strand	+
Start	268	End	534
Name	OJ000313_26.0420.C13.o1.gs	Method	GENSCAN
Start	268	End	534
GI	none	Score	.43
Exons	268..271, 503..534		

Seq. No.	55869	Seq. ID	OJ000313_26.0420.C13
Gene No.	117005	Strand	+
Start	1531	End	5166
Name	OJ000313_26.0420.C13.o1.np	Method	AAT/NAP
Start	1531	End	3653
GI	7523517	Score	225
Exons	1531..1843, 1988..2042, 3596..3653		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	55869	Seq. ID	OJ000313_26.0420.C13
Gene No.	117005	Strand	+
Start	1531	End	5166
Name	OJ000313_26.0420.C13.o2.gs	Method	GENSCAN
Start	2689	End	5088
GI	none	Score	.87
Exons	2689..2800, 3435..3540, 3555..3636, 3713..3861, 4087..4471, 4576..5088		

Seq. No.	55869	Seq. ID	OJ000313_26.0420.C13
Gene No.	117005	Strand	+
Start	1531	End	5166
Name	OJ000313_26.0420.C13.o2.np	Method	AAT/NAP
Start	3932	End	5061
GI	3152605	Score	508
Exons	3932..4519, 4657..5061		
GI Descrip.	(AC004482) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55869	Seq. ID	OJ000313_26.0420.C13
Gene No.	117005	Strand	+
Start	1531	End	5166
Name	OJ000313_26.0420.C13.o1.gp	Method	AAT/GAP
Start	4773	End	5166
GI	LIB3433-006-Q6-K6-G3	Score	670
Exons	4773..5166		
GI Descrip.	'3152605 7.0e-20 (AC004482) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	55869	Seq. ID	OJ000313_26.0420.C13
Gene No.	117006	Strand	-
Start	8571	End	9340
Name	OJ000313_26.0420.C13.o3.np	Method	AAT/NAP
Start	8571	End	9340
GI	6273385	Score	664
Exons	8571..8794, 8825..9340		
GI Descrip.	(AF195654) SCUTL2 [Vitis vinifera]		

Seq. No.	55869	Seq. ID	OJ000313_26.0420.C13
Gene No.	117007	Strand	-
Start	10647	End	11159
Name	OJ000313_26.0420.C13.o1.tm	Method	TBLASTX:Maize
Start	4708	End	5001
GI	none	Score	394
Exons	4708..5001, 4774..4992, 4776..4997		

Seq. No.	55869	Seq. ID	OJ000313_26.0420.C13
Gene No.	117007	Strand	-
Start	10647	End	11159
Name	OJ000313_26.0420.C13.o2.ts	Method	TBLASTX:Soybean
Start	4708	End	4865
GI	none	Score	216
Exons	4708..4863, 4773..4865		

Seq. No.	55869	Seq. ID	OJ000313_26.0420.C13
Gene No.	117007	Strand	-
Start	10647	End	11159
Name	OJ000313_26.0420.C13.o1.tw	Method	TBLASTX:Wheat
Start	4735	End	5001
GI	none	Score	359
Exons	4735..5001, 4774..4989		

Seq. No.	55869	Seq. ID	OJ000313_26.0420.C13
Gene No.	117007	Strand	-
Start	10647	End	11159
Name	OJ000313_26.0420.C13.o2.tc	Method	TBLASTX:Cress

Start 4801
GI none
Exons 4801..5004, 4801..5004

End 5004
Score 274

Seq. No. 55869
Gene No. 117007
Start 10647
Name OJ000313_26.0420.C13.o2.tw
Start 8577
GI none
Exons 8577..8810, 8689..8805

Seq. ID OJ000313_26.0420.C13
Strand -
End 11159
Method TBLASTX:Wheat
End 8810
Score 89

Seq. No. 55869
Gene No. 117007
Start 10647
Name OJ000313_26.0420.C13.o1.tc
Start 8580
GI none
Exons 8580..8612, 8616..8786, 8820..8894, 8916..9056, 8917..9057, 9025..9201, 9054..9200, 9189..9287, 9190..9288

Seq. ID OJ000313_26.0420.C13
Strand -
End 11159
Method TBLASTX:Cress
End 9288
Score 73

Seq. No. 55869
Gene No. 117007
Start 10647
Name OJ000313_26.0420.C13.o1.ts
Start 8580
GI none
Exons 8580..8606, 8610..8786, 8689..8787, 8835..8894, 8836..8883, 8916..9035, 8917..9036, 9034..9276, 9051..9278

Seq. ID OJ000313_26.0420.C13
Strand -
End 11159
Method TBLASTX:Soybean
End 9278
Score 81

Seq. No. 55869
Gene No. 117007
Start 10647
Name OJ000313_26.0420.C13.o2.tm
Start 8583
GI none
Exons 8583..8813, 8835..8903, 8904..9038, 8929..8967, 9010..9210, 9042..9089, 9093..9137, 9141..9266

Seq. ID OJ000313_26.0420.C13
Strand -
End 11159
Method TBLASTX:Maize
End 9266
Score 41

Seq. No. 55869
Gene No. 117007
Start 10647
Name OJ000313_26.0420.C13.o3.tw
Start 8829
GI none
Exons 8829..8879, 8892..9146, 9010..9201, 9231..9251

Seq. ID OJ000313_26.0420.C13
Strand -
End 11159
Method TBLASTX:Wheat
End 9251
Score 87

Seq. No. 55869
Gene No. 117007
Start 10647
Name OJ000313_26.0420.C13.o4.np
Start 10394
GI 2852447
Exons 10394..10507, 10686..11159
GI Descrip. (D88206) protein kinase [Arabidopsis thaliana]

Seq. ID OJ000313_26.0420.C13
Strand -
End 11159
Method AAT/NAP
End 11159
Score 116

Seq. No. 55869 Seq. ID OJ000313_26.0420.C13

Gene No.	117007	Strand	-
Start	10647	End	11159
Name	OJ000313_26.0420.C13.o4.gs	Method	GENSCAN
Start	10647	End	11153
GI	none	Score	.93
Exons	10647..11153		
Seq. No.	55870	Seq. ID	OJ000313_26.0420.C14
Gene No.	117008	Strand	+
Start	65	End	6858
Name	OJ000313_26.0420.C14.o1.gs	Method	GENSCAN
Start	65	End	6858
GI	none	Score	.64
Exons	65..73, 155..259, 2114..2263, 2440..2601, 3226..3282, 3325..3624, 3756..3950, 4155..4242, 4643..5123, 5835..6383, 6448..6629, 6716..6858		
Seq. No.	55870	Seq. ID	OJ000313_26.0420.C14
Gene No.	117008	Strand	+
Start	65	End	6858
Name	OJ000313_26.0420.C14.o1.np	Method	AAT/NAP
Start	3367	End	6855
GI	7485315	Score	1666
Exons	3367..3475, 3587..3624, 3756..4032, 4643..5123, 5835..6383, 6448..6648, 6753..6855		
GI Descrip.	hypothetical protein F10M10.140 - Arabidopsis thaliana gi 4455182 emb CAB36714.1 (AL035521) putative protein [Arabidopsis thaliana] gi 7270387 emb CAB80154.1 (AL161585) putative protein [Arabidopsis thaliana]		
Seq. No.	55870	Seq. ID	OJ000313_26.0420.C14
Gene No.	117008	Strand	+
Start	65	End	6858
Name	OJ000313_26.0420.C14.o1.gp	Method	AAT/GAP
Start	3779	End	4872
GI	uC-osrocyp006a05b1	Score	920
Exons	3779..4032, 4643..4872		
GI Descrip.	'4678205/gb AAD26951.1 AC007134_9 1.0e-59 (AC007134) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	55870	Seq. ID	OJ000313_26.0420.C14
Gene No.	117009	Strand	+
Start	7937	End	10127
Name	OJ000313_26.0420.C14.o2.gs	Method	GENSCAN
Start	7937	End	10003
GI	none	Score	.8
Exons	7937..8204, 8939..9013, 9109..9189, 9282..10003		
Seq. No.	55870	Seq. ID	OJ000313_26.0420.C14
Gene No.	117009	Strand	+
Start	7937	End	10127
Name	OJ000313_26.0420.C14.o2.np	Method	AAT/NAP
Start	9323	End	10127
GI	6539555	Score	685
Exons	9323..10003, 10086..10127		
GI Descrip.	(AP000836) Similar to mariner transposase (AF078934) [Oryza sativa] gi 6539592 dbj BAA88208.1 (AP000837) Similar to mariner		

transposase (AF078934) [Oryza sativa]

Seq. No.	55870	Seq. ID	OJ000313_26.0420.C14
Gene No.	117010	Strand	-
Start	6799	End	7178
Name	OJ000313_26.0420.C14.o2.ts	Method	TBLASTX:Soybean
Start	3589	End	3935
GI	none	Score	49
Exons	3589..3624, 3591..3623, 3753..3935, 3753..3914		

Seq. No.	55870	Seq. ID	OJ000313_26.0420.C14
Gene No.	117010	Strand	-
Start	6799	End	7178
Name	OJ000313_26.0420.C14.o1.ts	Method	TBLASTX:Soybean
Start	4644	End	6277
GI	none	Score	78
Exons	4644..4727, 4644..5132, 4645..5121, 5835..5906, 5835..5912, 5836..5919, 5911..6276, 5922..6170, 5995..6195, 6035..6277, 6038..6268, 6240..6275		

Seq. No.	55870	Seq. ID	OJ000313_26.0420.C14
Gene No.	117010	Strand	-
Start	6799	End	7178
Name	OJ000313_26.0420.C14.o1.tm	Method	TBLASTX:Maize
Start	4776	End	6312
GI	none	Score	649
Exons	4776..5132, 4777..5121, 5819..6166, 5835..6236, 5835..6170, 5836..6312, 5995..6213, 6209..6298		

Seq. No.	55870	Seq. ID	OJ000313_26.0420.C14
Gene No.	117010	Strand	-
Start	6799	End	7178
Name	OJ000313_26.0420.C14.o2.tm	Method	TBLASTX:Maize
Start	6312	End	6619
GI	none	Score	120
Exons	6312..6386, 6313..6384, 6313..6390, 6394..6546, 6447..6572, 6448..6546, 6449..6550, 6554..6601, 6555..6599, 6596..6619		

Seq. No.	55870	Seq. ID	OJ000313_26.0420.C14
Gene No.	117010	Strand	-
Start	6799	End	7178
Name	OJ000313_26.0420.C14.o2.gp	Method	AAT/GAP
Start	6799	End	7178
GI	none	Score	661
Exons	6799..7178		

Seq. No.	55871	Seq. ID	OJ000313_26.0420.C15
Gene No.	117011	Strand	-
Start	629	End	1453
Name	OJ000313_26.0420.C15.o1.gs	Method	GENSCAN
Start	629	End	1453
GI	none	Score	.79
Exons	629..983, 1245..1453		

Seq. No.	55872	Seq. ID	OJ000313_26.0420.C16
Gene No.	117012	Strand	+
Start	6745	End	6981

Name	OJ000313_26.0420.C16.o1.np	Method	AAT/NAP
Start	6127	End	6981
GI	7485963	Score	164
Exons	6127..6194, 6793..6981		
GI Descrip.	hypothetical protein F22I13.90 - Arabidopsis thaliana gi 4539340 emb CAB37488.1 (AL035539) putative protein [Arabidopsis thaliana] gi 7270816 emb CAB80497.1 (AL161593) putative protein [Arabidopsis thaliana]		

Seq. No.	55872	Seq. ID	OJ000313_26.0420.C16
Gene No.	117012	Strand	+
Start	6745	End	6981
Name	OJ000313_26.0420.C16.o2.gs	Method	GENSCAN
Start	6745	End	6977
GI	none	Score	.8
Exons	6745..6977		

Seq. No.	55872	Seq. ID	OJ000313_26.0420.C16
Gene No.	117013	Strand	-
Start	807	End	5313
Name	OJ000313_26.0420.C16.o1.gs	Method	GENSCAN
Start	807	End	5313
GI	none	Score	.66
Exons	807..940, 1062..1190, 1398..1494, 1980..1999, 2153..2247, 2652..2739, 5271..5313		

Seq. No.	55872	Seq. ID	OJ000313_26.0420.C16
Gene No.	117014	Strand	
Start	6845	End	6984
Name	OJ000313_26.0420.C16.o1.tm	Method	TBLASTX:Maize
Start	6845	End	6984
GI	none	Score	218
Exons	6845..6889, 6855..6977, 6856..6984		

Seq. No.	55872	Seq. ID	OJ000313_26.0420.C16
Gene No.	117014	Strand	
Start	6845	End	6984
Name	OJ000313_26.0420.C16.o1.tc	Method	TBLASTX:Cress
Start	6856	End	6984
GI	none	Score	184
Exons	6856..6984, 6858..6977		

Seq. No.	55872	Seq. ID	OJ000313_26.0420.C16
Gene No.	117014	Strand	
Start	6845	End	6984
Name	OJ000313_26.0420.C16.o1.ts	Method	TBLASTX:Soybean
Start	6856	End	6984
GI	none	Score	199
Exons	6856..6984, 6861..6977		

Seq. No.	55873	Seq. ID	OJ000313_26.0420.C17
Gene No.	117015	Strand	+
Start	1195	End	2367
Name	OJ000313_26.0420.C17.o1.np	Method	AAT/NAP
Start	1195	End	2367
GI	7485770	Score	511
Exons	1195..1353, 1429..1519, 2147..2367		

GI Descrip. hypothetical protein F19F18.170 - Arabidopsis thaliana
gi|4468993|emb|CAB38307.1| (AL035605) putative protein
[Arabidopsis thaliana] gi|7270750|emb|CAB80433.1| (AL161591)
putative protein [Arabidopsis thaliana]

Seq. No.	55873	Seq. ID	OJ000313_26.0420.C17
Gene No.	117016	Strand	-
Start	234	End	2358
Name	OJ000313_26.0420.C17.o1.gs	Method	GENSCAN
Start	234	End	1433
GI	none	Score	.46
Exons	234..361, 453..635, 690..791, 1364..1433		

Seq. No.	55873	Seq. ID	OJ000313_26.0420.C17
Gene No.	117016	Strand	-
Start	234	End	2358
Name	OJ000313_26.0420.C17.o1.ts	Method	TBLASTX:Soybean
Start	1186	End	2358
GI	none	Score	77
Exons	1186..1245, 1196..1243, 1232..1381, 1279..1359, 1346..1453, 1433..1480, 1441..1482, 2108..2356, 2146..2358		

Seq. No.	55873	Seq. ID	OJ000313_26.0420.C17
Gene No.	117016	Strand	-
Start	234	End	2358
Name	OJ000313_26.0420.C17.o1.tm	Method	TBLASTX:Maize
Start	1265	End	2358
GI	none	Score	381
Exons	1265..1504, 1273..1527, 1278..1517, 1279..1524, 1388..1534, 2079..2306, 2138..2353, 2147..2356, 2149..2358		

Seq. No.	55873	Seq. ID	OJ000313_26.0420.C17
Gene No.	117016	Strand	-
Start	234	End	2358
Name	OJ000313_26.0420.C17.o1.tc	Method	TBLASTX:Cress
Start	2201	End	2358
GI	none	Score	186
Exons	2201..2356, 2206..2358		

Seq. No.	55874	Seq. ID	OJ000313_26.0420.C19
Gene No.	117017	Strand	-
Start	38	End	727
Name	OJ000313_26.0420.C19.o1.gs	Method	GENSCAN
Start	38	End	727
GI	none	Score	.6
Exons	38..727		

Seq. No.	55874	Seq. ID	OJ000313_26.0420.C19
Gene No.	117017	Strand	-
Start	38	End	727
Name	OJ000313_26.0420.C19.o1.ts	Method	TBLASTX:Soybean
Start	167	End	425
GI	none	Score	85
Exons	167..409, 294..425		

Seq. No.	55875	Seq. ID	OJ000323_26.0420.C2
Gene No.	117018	Strand	+

Start	1	End	1043
Name	OJ000323_26.0420.C2.o1.np	Method	AAT/NAP
Start	1	End	1043
GI	6721516	Score	185
Exons	1..96, 837..1043		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	55875	Seq. ID	OJ000323_26.0420.C2
Gene No.	117018	Strand	+
Start	1	End	1043
Name	OJ000323_26.0420.C2.o1.gs	Method	GENSCAN
Start	299	End	547
GI	none	Score	.41
Exons	299..547		

Seq. No.	55876	Seq. ID	OJ000323_26.0420.C4
Gene No.	117019	Strand	-
Start	112	End	3724
Name	OJ000323_26.0420.C4.o1.gs	Method	GENSCAN
Start	112	End	3724
GI	none	Score	.44
Exons	112..194, 600..688, 1340..2294, 3112..3245, 3406..3724		

Seq. No.	55876	Seq. ID	OJ000323_26.0420.C4
Gene No.	117019	Strand	-
Start	112	End	3724
Name	OJ000323_26.0420.C4.o1.tm	Method	TBLASTX:Maize
Start	1326	End	2418
GI	none	Score	70
Exons	1326..1418, 1335..1457, 1542..1643, 1659..1955, 1659..1946, 1663..1959, 1669..1959, 1996..2220, 1999..2118, 2009..2155, 2013..2213, 2220..2312, 2233..2406, 2389..2418		

Seq. No.	55876	Seq. ID	OJ000323_26.0420.C4
Gene No.	117019	Strand	-
Start	112	End	3724
Name	OJ000323_26.0420.C4.o1.gp	Method	AAT/GAP
Start	1383	End	1910
GI	8115_1.R1084	Score	1044
Exons	1383..1910		
GI Descrip.	'2827536/emb CAA16544.1 2.0e-12 (AL021633) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	55876	Seq. ID	OJ000323_26.0420.C4
Gene No.	117019	Strand	-
Start	112	End	3724
Name	OJ000323_26.0420.C4.o1.tw	Method	TBLASTX:Wheat
Start	1587	End	1821
GI	none	Score	205
Exons	1587..1820, 1611..1820, 1669..1821		

Seq. No.	55876	Seq. ID	OJ000323_26.0420.C4
Gene No.	117019	Strand	-
Start	112	End	3724
Name	OJ000323_26.0420.C4.o1.np	Method	AAT/NAP
Start	1658	End	2306
GI	6553882	Score	382

Exons 1658..2306
GI Descrip. (AC012563) unknown protein [Arabidopsis thaliana]

Seq. No.	55876	Seq. ID	OJ000323_26.0420.C4
Gene No.	117019	Strand	-
Start	112	End	3724
Name	OJ000323_26.0420.C4.o1.tc	Method	TBLASTX:Cress
Start	1671	End	2153
GI	none	Score	107
Exons	1671..1940, 1741..1938, 1951..2145, 2013..2153		

Seq. No.	55876	Seq. ID	OJ000323_26.0420.C4
Gene No.	117019	Strand	-
Start	112	End	3724
Name	OJ000323_26.0420.C4.o1.ts	Method	TBLASTX:Soybean
Start	1692	End	2156
GI	none	Score	115
Exons	1692..1931, 2008..2133, 2013..2156, 2016..2153		

Seq. No.	55876	Seq. ID	OJ000323_26.0420.C4
Gene No.	117019	Strand	-
Start	112	End	3724
Name	OJ000323_26.0420.C4.o2.gp	Method	AAT/GAP
Start	2153	End	3292
GI	43613_1.R1084	Score	858
Exons	2153..2414, 3112..3292		
GI Descrip.	'4314378/gb AAD15588 1.0e-20 (AC006232) putative lipase [Arabidopsis thaliana] >gi_5306262_gb_AAD41994.1 AC006233_5 (AC006233) putative lipase [Arabidopsis thaliana]'		

Seq. No.	55877	Seq. ID	OJ000323_26.0420.C5
Gene No.	117020	Strand	-
Start	27	End	396
Name	OJ000323_26.0420.C5.o1.gs	Method	GENSCAN
Start	27	End	396
GI	none	Score	.42
Exons	27..113, 355..396		

Seq. No.	55878	Seq. ID	OJ000323_26.0420.C6
Gene No.	117021	Strand	-
Start	8	End	532
Name	OJ000323_26.0420.C6.o1.gs	Method	GENSCAN
Start	8	End	532
GI	none	Score	.99
Exons	8..532		

Seq. No.	55879	Seq. ID	OJ000323_26.0420.C8
Gene No.	117022	Strand	-
Start	694	End	967
Name	OJ000323_26.0420.C8.o1.gs	Method	GENSCAN
Start	694	End	957
GI	none	Score	.99
Exons	694..957		

Seq. No.	55879	Seq. ID	OJ000323_26.0420.C8
Gene No.	117022	Strand	-
Start	694	End	967

Name	OJ000323_26.0420.C8.o1.np	Method	AAT/NAP
Start	703	End	967
GI	7486630	Score	76
Exons	703..967		
GI Descrip.	hypothetical protein F8B4.140 - Arabidopsis thaliana gi 4049346 emb CAA22571.1 (AL034567) putative protein [Arabidopsis thaliana] gi 7270148 emb CAB79961.1 (AL161581) putative protein [Arabidopsis thaliana]		

Seq. No.	55880	Seq. ID	OJ000323_26.0420.C9
Gene No.	117023	Strand	+
Start	2479	End	4034
Name	OJ000323_26.0420.C9.o1.np	Method	AAT/NAP
Start	2479	End	4034
GI	5042463	Score	91
Exons	2479..2584, 3717..4034		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	55880	Seq. ID	OJ000323_26.0420.C9
Gene No.	117024	Strand	-
Start	1802	End	2045
Name	OJ000323_26.0420.C9.o1.gs	Method	GENSCAN
Start	1802	End	2045
GI	none	Score	.86
Exons	1802..1932, 1964..2045		

Seq. No.	55880	Seq. ID	OJ000323_26.0420.C9
Gene No.	117025	Strand	-
Start	2190	End	2564
Name	OJ000323_26.0420.C9.o2.tm	Method	TBLASTX:Maize
Start	280	End	409
GI	none	Score	185
Exons	280..408, 281..409		

Seq. No.	55880	Seq. ID	OJ000323_26.0420.C9
Gene No.	117025	Strand	-
Start	2190	End	2564
Name	OJ000323_26.0420.C9.o3.tm	Method	TBLASTX:Maize
Start	783	End	970
GI	none	Score	154
Exons	783..965, 800..970, 816..965		

Seq. No.	55880	Seq. ID	OJ000323_26.0420.C9
Gene No.	117025	Strand	-
Start	2190	End	2564
Name	OJ000323_26.0420.C9.o1.tm	Method	TBLASTX:Maize
Start	1116	End	1296
GI	none	Score	212
Exons	1116..1295, 1117..1296, 1136..1294, 1137..1295, 1138..1296		

Seq. No.	55880	Seq. ID	OJ000323_26.0420.C9
Gene No.	117025	Strand	-
Start	2190	End	2564
Name	OJ000323_26.0420.C9.o2.gs	Method	GENSCAN
Start	2190	End	2564
GI	none	Score	.91
Exons	2190..2564		

Seq. No.	55881	Seq. ID	OJ000323_26.0420.C10
Gene No.	117026	Strand	+
Start	337	End	674
Name	OJ000323_26.0420.C10.o1.np	Method	AAT/NAP
Start	337	End	674
GI	5042463	Score	51
Exons	337..544, 596..674		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	55881	Seq. ID	OJ000323_26.0420.C10
Gene No.	117027	Strand	-
Start	993	End	1135
Name	OJ000323_26.0420.C10.o2.np	Method	AAT/NAP
Start	993	End	1135
GI	7106514	Score	65
Exons	993..1135		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	55882	Seq. ID	OJ000323_26.0420.C11
Gene No.	117028	Strand	+
Start	5538	End	8102
Name	OJ000323_26.0420.C11.o1.gp	Method	AAT/GAP
Start	5415	End	7544
GI	41091_2.R1084	Score	1738
Exons	5415..5613, 6796..7544		
GI Descrip.	'1621268/emb CAB02653 1.0e-86 (Z81012) unknown [Ricinus communis]'		

Seq. No.	55882	Seq. ID	OJ000323_26.0420.C11
Gene No.	117028	Strand	+
Start	5538	End	8102
Name	OJ000323_26.0420.C11.o2.gs	Method	GENSCAN
Start	5538	End	7841
GI	none	Score	.97
Exons	5538..5613, 6796..7841		

Seq. No.	55882	Seq. ID	OJ000323_26.0420.C11
Gene No.	117028	Strand	+
Start	5538	End	8102
Name	OJ000323_26.0420.C11.o1.np	Method	AAT/NAP
Start	6730	End	7814
GI	7488898	Score	1262
Exons	6730..7814		
GI Descrip.	hypothetical protein - castor bean gi 1621268 emb CAB02653.1 (Z81012) unknown [Ricinus communis]		

Seq. No.	55882	Seq. ID	OJ000323_26.0420.C11
Gene No.	117028	Strand	+
Start	5538	End	8102
Name	OJ000323_26.0420.C11.o1.tm	Method	TBLASTX:Maize
Start	6779	End	8102
GI	none	Score	473
Exons	6779..7078, 6795..7100, 7068..7295, 7082..7294, 7200..7298, 7289..7405, 7299..7835, 7304..7813, 7955..8074, 7977..8102		

Seq. No.	55882	Seq. ID	OJ000323_26.0420.C11
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Gene No.	117028	Strand	+
Start	5538	End	8102
Name	OJ000323_26.0420.C11.o2.tc	Method	TBLASTX:Cress
Start	6788	End	7094
GI	none	Score	63
Exons	6788..6841, 6795..6845, 6821..7093, 6831..7094		

Seq. No.	55882	Seq. ID	OJ000323_26.0420.C11
Gene No.	117028	Strand	+
Start	5538	End	8102
Name	OJ000323_26.0420.C11.o1.ts	Method	TBLASTX:Soybean
Start	6791	End	7817
GI	none	Score	73
Exons	6791..6829, 6795..6860, 6822..7103, 6830..7102, 7103..7717, 7104..7718, 7742..7807, 7758..7817		

Seq. No.	55882	Seq. ID	OJ000323_26.0420.C11
Gene No.	117028	Strand	+
Start	5538	End	8102
Name	OJ000323_26.0420.C11.o1.tw	Method	TBLASTX:Wheat
Start	7062	End	7304
GI	none	Score	212
Exons	7062..7304, 7064..7303		

Seq. No.	55882	Seq. ID	OJ000323_26.0420.C11
Gene No.	117028	Strand	+
Start	5538	End	8102
Name	OJ000323_26.0420.C11.o1.tc	Method	TBLASTX:Cress
Start	7094	End	7784
GI	none	Score	807
Exons	7094..7756, 7095..7757, 7761..7784		

Seq. No.	55883	Seq. ID	OJ000323_26.0420.C12
Gene No.	117029	Strand	+
Start	382	End	627
Name	OJ000323_26.0420.C12.o1.np	Method	AAT/NAP
Start	382	End	627
GI	7330002	Score	90
Exons	382..627		
GI Descrip.	(AF210726) ORFRU8-L [Macaca mulatta rhadinovirus 26-95]		

Seq. No.	55883	Seq. ID	OJ000323_26.0420.C12
Gene No.	117030	Strand	-
Start	150	End	666
Name	OJ000323_26.0420.C12.o1.gs	Method	GENSCAN
Start	150	End	666
GI	none	Score	.41
Exons	150..666		

Seq. No.	55884	Seq. ID	OJ000323_26.0420.C13
Gene No.	117031	Strand	+
Start	1	End	1111
Name	OJ000323_26.0420.C13.o1.np	Method	AAT/NAP
Start	1	End	1111
GI	4416302	Score	1064
Exons	1..1111		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	55884	Seq. ID	OJ000323_26.0420.C13
Gene No.	117031	Strand	+
Start	1	End	1111
Name	OJ000323_26.0420.C13.o1.gs	Method	GENSCAN
Start	165	End	629
GI	none	Score	.88
Exons	165..629		

Seq. No.	55884	Seq. ID	OJ000323_26.0420.C13
Gene No.	117032	Strand	-
Start	917	End	1087
Name	OJ000323_26.0420.C13.o3.tm	Method	TBLASTX:Maize
Start	20	End	260
GI	none	Score	66
Exons	20..91, 21..89, 80..232, 80..244, 84..260		

Seq. No.	55884	Seq. ID	OJ000323_26.0420.C13
Gene No.	117032	Strand	-
Start	917	End	1087
Name	OJ000323_26.0420.C13.o1.tw	Method	TBLASTX:Wheat
Start	122	End	685
GI	none	Score	235
Exons	122..346, 123..368, 291..347, 408..575, 517..573, 579..683, 581..685, 610..684		

Seq. No.	55884	Seq. ID	OJ000323_26.0420.C13
Gene No.	117032	Strand	-
Start	917	End	1087
Name	OJ000323_26.0420.C13.o1.tm	Method	TBLASTX:Maize
Start	260	End	790
GI	none	Score	311
Exons	260..346, 261..605, 267..446, 389..574, 576..731, 578..772, 580..786, 581..790		

Seq. No.	55884	Seq. ID	OJ000323_26.0420.C13
Gene No.	117032	Strand	-
Start	917	End	1087
Name	OJ000323_26.0420.C13.o1.ts	Method	TBLASTX:Soybean
Start	581	End	997
GI	none	Score	270
Exons	581..997, 592..714, 793..945		

Seq. No.	55884	Seq. ID	OJ000323_26.0420.C13
Gene No.	117032	Strand	-
Start	917	End	1087
Name	OJ000323_26.0420.C13.o2.tw	Method	TBLASTX:Wheat
Start	779	End	1087
GI	none	Score	92
Exons	779..856, 863..1009, 872..1009, 1031..1087		

Seq. No.	55884	Seq. ID	OJ000323_26.0420.C13
Gene No.	117032	Strand	-
Start	917	End	1087
Name	OJ000323_26.0420.C13.o2.tm	Method	TBLASTX:Maize
Start	793	End	1086
GI	none	Score	252

Exons 793..1005, 794..1045, 977..1045, 1057..1086

Seq. No.	55884	Seq. ID	OJ000323_26.0420.C13
Gene No.	117032	Strand	-
Start	917	End	1087
Name	OJ000323_26.0420.C13.o2.gs	Method	GENSCAN
Start	917	End	1058
GI	none	Score	.69
Exons	917..1058		

Seq. No.	55885	Seq. ID	OJ000323_26.0420.C14
Gene No.	117033	Strand	+
Start	266	End	954
Name	OJ000323_26.0420.C14.o1.gs	Method	GENSCAN
Start	266	End	954
GI	none	Score	.55
Exons	266..334, 646..954		

Seq. No.	55886	Seq. ID	OJ000323_26.0420.C17
Gene No.	117034	Strand	+
Start	1322	End	2627
Name	OJ000323_26.0420.C17.o1.np	Method	AAT/NAP
Start	1322	End	2627
GI	6815099	Score	86
Exons	1322..1429, 2529..2627		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	55887	Seq. ID	OJ000323_26.0420.C18
Gene No.	117035	Strand	+
Start	1722	End	2440
Name	OJ000323_26.0420.C18.o1.gs	Method	GENSCAN
Start	1722	End	2440
GI	none	Score	.89
Exons	1722..1790, 2000..2083, 2138..2440		

Seq. No.	55888	Seq. ID	OJ000323_26.0420.C19
Gene No.	117036	Strand	-
Start	1	End	708
Name	OJ000323_26.0420.C19.o1.gp	Method	AAT/GAP
Start	1	End	397
GI	58_1.R1084	Score	718
Exons	1..397		
GI Descrip.	'5360230/dbj BAA81911.1 1.0e-115 (AB015287) Ran [Oryza sativa]'		

Seq. No.	55888	Seq. ID	OJ000323_26.0420.C19
Gene No.	117036	Strand	-
Start	1	End	708
Name	OJ000323_26.0420.C19.o1.gs	Method	GENSCAN
Start	203	End	708
GI	none	Score	.71
Exons	203..506, 564..708		

Seq. No.	55889	Seq. ID	OJ000323_26.0420.C20
Gene No.	117037	Strand	+
Start	163	End	287
Name	OJ000323_26.0420.C20.o1.gs	Method	GENSCAN
Start	163	End	287

GI	none	Score	.6
Exons	163..287		
Seq. No.	55889	Seq. ID	OJ000323_26.0420.C20
Gene No.	117038	Strand	+
Start	550	End	5583
Name	OJ000323_26.0420.C20.o1.np	Method	AAT/NAP
Start	550	End	2175
GI	7459171	Score	80
Exons	550..643, 1980..2175		
GI Descrip.	hypothetical protein T6H20.80 - Arabidopsis thaliana gi 5541670 emb CAB51176.1 (AL096859) putative protein [Arabidopsis thaliana]		

Seq. No.	55889	Seq. ID	OJ000323_26.0420.C20
Gene No.	117038	Strand	+
Start	550	End	5583
Name	OJ000323_26.0420.C20.o2.np	Method	AAT/NAP
Start	1936	End	5583
GI	4966352	Score	174
Exons	1936..2090, 3214..3290, 3416..3689, 5540..5583		
GI Descrip.	(AC006341) >F309.11 [Arabidopsis thaliana]		

Seq. No.	55889	Seq. ID	OJ000323_26.0420.C20
Gene No.	117038	Strand	+
Start	550	End	5583
Name	OJ000323_26.0420.C20.o2.gs	Method	GENSCAN
Start	1965	End	2178
GI	none	Score	.91
Exons	1965..2042, 2047..2178		

Seq. No.	55889	Seq. ID	OJ000323_26.0420.C20
Gene No.	117039	Strand	+
Start	6163	End	7237
Name	OJ000323_26.0420.C20.o3.gs	Method	GENSCAN
Start	6163	End	7237
GI	none	Score	.84
Exons	6163..6697, 6830..7237		

Seq. No.	55889	Seq. ID	OJ000323_26.0420.C20
Gene No.	117040	Strand	-
Start	3930	End	7546
Name	OJ000323_26.0420.C20.o3.np	Method	AAT/NAP
Start	3930	End	7546
GI	7248394	Score	34
Exons	3930..4066, 5851..6056, 7488..7546		
GI Descrip.	(AP001389) ESTs C97394(C60113), AU075824(R0165), D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	55889	Seq. ID	OJ000323_26.0420.C20
Gene No.	117040	Strand	-
Start	3930	End	7546
Name	OJ000323_26.0420.C20.o1.gp	Method	AAT/GAP
Start	4038	End	4263

GI	2312838	Score	80
Exons	4038..4059, 4202..4263		
GI Descrip.	1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	55890	Seq. ID	OJ000323_26.0420.C21
Gene No.	117041	Strand	+
Start	1	End	1082
Name	OJ000323_26.0420.C21.o1.np	Method	AAT/NAP
Start	1	End	1082
GI	6630685	Score	604
Exons	1..271, 534..1082		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	55890	Seq. ID	OJ000323_26.0420.C21
Gene No.	117042	Strand	-
Start	2441	End	6132
Name	OJ000323_26.0420.C21.o1.tw	Method	TBLASTX:Wheat
Start	277	End	453
GI	none	Score	228
Exons	277..453, 288..452		

Seq. No.	55890	Seq. ID	OJ000323_26.0420.C21
Gene No.	117042	Strand	-
Start	2441	End	6132
Name	OJ000323_26.0420.C21.o2.ts	Method	TBLASTX:Soybean
Start	277	End	467
GI	5509260	Score	230
Exons	277..459, 277..462, 288..467, 288..467		
GI Descrip.	-		

Seq. No.	55890	Seq. ID	OJ000323_26.0420.C21
Gene No.	117042	Strand	-
Start	2441	End	6132
Name	OJ000323_26.0420.C21.o2.tm	Method	TBLASTX:Maize
Start	277	End	531
GI	none	Score	304
Exons	277..531, 288..527		

Seq. No.	55890	Seq. ID	OJ000323_26.0420.C21
Gene No.	117042	Strand	-
Start	2441	End	6132
Name	OJ000323_26.0420.C21.o1.tm	Method	TBLASTX:Maize
Start	533	End	1138
GI	none	Score	160
Exons	533..688, 535..687, 680..1093, 684..1079, 980..1138, 982..1104		

Seq. No.	55890	Seq. ID	OJ000323_26.0420.C21
Gene No.	117042	Strand	-
Start	2441	End	6132
Name	OJ000323_26.0420.C21.o1.ts	Method	TBLASTX:Soybean
Start	539	End	1091
GI	none	Score	85
Exons	539..688, 693..809, 695..757, 843..1091, 851..1018		

Seq. No.	55890	Seq. ID	OJ000323_26.0420.C21
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Gene No.	117042	Strand	-
Start	2441	End	6132
Name	OJ000323_26.0420.C21.o2.np	Method	AAT/NAP
Start	2441	End	6132
GI	6721516	Score	638
Exons	2441..2619, 5124..5459, 5831..6132		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	55891	Seq. ID	OJ000323_26.0420.C22
Gene No.	117043	Strand	+
Start	1	End	1012
Name	OJ000323_26.0420.C22.o1.np	Method	AAT/NAP
Start	1	End	1012
GI	6721516	Score	598
Exons	1..295, 704..1012		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	55891	Seq. ID	OJ000323_26.0420.C22
Gene No.	117044	Strand	-
Start	145	End	892
Name	OJ000323_26.0420.C22.o1.gs	Method	GENSCAN
Start	145	End	892
GI	none	Score	.59
Exons	145..402, 845..892		

Seq. No.	55892	Seq. ID	OJ000323_26.0420.C23
Gene No.	117045	Strand	-
Start	342	End	528
Name	OJ000323_26.0420.C23.o1.gs	Method	GENSCAN
Start	342	End	528
GI	none	Score	.43
Exons	342..528		

Seq. No.	55893	Seq. ID	OJ000323_26.0420.C24
Gene No.	117046	Strand	+
Start	1474	End	1883
Name	OJ000323_26.0420.C24.o1.gs	Method	GENSCAN
Start	1474	End	1883
GI	none	Score	.95
Exons	1474..1558, 1628..1656, 1738..1883		

Seq. No.	55894	Seq. ID	OJ000323_26.0420.C25
Gene No.	117047	Strand	+
Start	1	End	5194
Name	OJ000323_26.0420.C25.o1.np	Method	AAT/NAP
Start	1	End	5194
GI	93144	Score	73
Exons	1..68, 1349..1436, 1493..1704, 1916..2020, 5148..5194		
GI Descrip.	hypothetical protein - suid herpesvirus 1 (strain Indiana-Funkhuser or Becker) gi 334068 (M57505) ORF2 [Pseudorabies virus]		

Seq. No.	55894	Seq. ID	OJ000323_26.0420.C25
Gene No.	117047	Strand	+
Start	1	End	5194
Name	OJ000323_26.0420.C25.o1.gs	Method	GENSCAN
Start	948	End	2280

GI	none	Score	.75
Exons	948..1061, 1246..1480, 1516..1975, 2181..2280		
Seq. No.	55894	Seq. ID	OJ000323_26.0420.C25
Gene No.	117048	Strand	-
Start	368	End	2047
Name	OJ000323_26.0420.C25.o1.gp	Method	AAT/GAP
Start	368	End	2047
GI	21017_1.R1084	Score	2655
Exons	368..2047		
GI Descrip.	'6006355/dbj AP000559.1 AP000559 2.0e-22 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11'		

Seq. No.	55894	Seq. ID	OJ000323_26.0420.C25
Gene No.	117049	Strand	-
Start	3407	End	4301
Name	OJ000323_26.0420.C25.o4.gp	Method	AAT/GAP
Start	3407	End	4257
GI	15151_1.R1084	Score	1141
Exons	3407..3858, 4005..4084, 4179..4257		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	55894	Seq. ID	OJ000323_26.0420.C25
Gene No.	117049	Strand	-
Start	3407	End	4301
Name	OJ000323_26.0420.C25.o1.tm	Method	TBLASTX:Maize
Start	3502	End	4248
GI	none	Score	62
Exons	3502..3552, 3503..3553, 3544..3645, 3544..3627, 3545..3640, 3546..3644, 3549..3680, 3626..3685, 3627..3686, 3678..3707, 3682..3711, 3682..3729, 3724..3783, 3735..3842, 3743..3784, 3785..3859, 3978..4085, 3994..4086, 4002..4085, 4180..4248, 4181..4246		

Seq. No.	55894	Seq. ID	OJ000323_26.0420.C25
Gene No.	117049	Strand	-
Start	3407	End	4301
Name	OJ000323_26.0420.C25.o2.gs	Method	GENSCAN
Start	3793	End	4301
GI	none	Score	.61
Exons	3793..3858, 4005..4084, 4179..4301		

Seq. No.	55894	Seq. ID	OJ000323_26.0420.C25
Gene No.	117049	Strand	-
Start	3407	End	4301
Name	OJ000323_26.0420.C25.o2.np	Method	AAT/NAP
Start	3796	End	4247
GI	7489630	Score	323
Exons	3796..3858, 4005..4084, 4179..4247		
GI Descrip.	probable cytochrome-c oxidase (EC 1.9.3.1) Vb chain precursor - rice mitochondrion gi 1841355 dbj BAA12797.1 (D85381) cytochrome c oxidase subunit Vb precursor [Oryza sativa]		

Seq. No.	55894	Seq. ID	OJ000323_26.0420.C25
Gene No.	117049	Strand	-
Start	3407	End	4301

Name	OJ000323_26.0420.C25.ol.ts	Method	TBLASTX:Soybean
Start	4002	End	4248
GI	none	Score	72
Exons	4002..4085, 4005..4085, 4006..4086, 4180..4248, 4181..4246		

Seq. No.	55894	Seq. ID	OJ000323_26.0420.C25
Gene No.	117049	Strand	-
Start	3407	End	4301
Name	OJ000323_26.0420.C25.ol.tc	Method	TBLASTX:Cress
Start	4008	End	4248
GI	none	Score	78
Exons	4008..4085, 4009..4086, 4180..4248, 4181..4246		

Seq. No.	55895	Seq. ID	OJ000323_26.0420.C26
Gene No.	117050	Strand	+
Start	281	End	474
Name	OJ000323_26.0420.C26.ol.gs	Method	GENSCAN
Start	281	End	474
GI	none	Score	.83
Exons	281..474		

Seq. No.	55896	Seq. ID	OJ000323_26.0420.C29
Gene No.	117051	Strand	+
Start	41	End	306
Name	OJ000323_26.0420.C29.ol.gs	Method	GENSCAN
Start	41	End	306
GI	none	Score	.7
Exons	41..94, 154..306		

Seq. No.	55897	Seq. ID	OJ000323_26.0420.C33
Gene No.	117052	Strand	-
Start	91	End	767
Name	OJ000323_26.0420.C33.ol.gs	Method	GENSCAN
Start	91	End	700
GI	none	Score	.75
Exons	91..339, 565..700		

Seq. No.	55897	Seq. ID	OJ000323_26.0420.C33
Gene No.	117052	Strand	-
Start	91	End	767
Name	OJ000323_26.0420.C33.ol.np	Method	AAT/NAP
Start	91	End	767
GI	4733937	Score	134
Exons	91..339, 553..767		
GI Descrip.	(AF080245) sesquiterpene synthase [Elaeis oleifera]		

Seq. No.	55897	Seq. ID	OJ000323_26.0420.C33
Gene No.	117052	Strand	-
Start	91	End	767
Name	OJ000323_26.0420.C33.ol.tm	Method	TBLASTX:Maize
Start	100	End	684
GI	none	Score	164
Exons	100..339, 106..339, 107..340, 257..340, 553..684, 558..632, 568..684		

Seq. No.	55898	Seq. ID	OJ000323_26.0420.C34
Gene No.	117053	Strand	-

Start	1	End	771
Name	OJ000323_26.0420.C34.ol.np	Method	AAT/NAP
Start	1	End	761
GI	495731	Score	263
Exons	1..82, 480..597, 686..761		
GI Descrip.	(L16790) small ras-related protein [Arabidopsis thaliana].		

Seq. No.	55898	Seq. ID	OJ000323_26.0420.C34
Gene No.	117053	Strand	-
Start	1	End	771
Name	OJ000323_26.0420.C34.ol.ts	Method	TBLASTX:Soybean
Start	455	End	771
GI	none	Score	120
Exons	455..595, 476..592, 519..602, 687..743, 709..771		

Seq. No.	55898	Seq. ID	OJ000323_26.0420.C34
Gene No.	117053	Strand	-
Start	1	End	771
Name	OJ000323_26.0420.C34.ol.tm	Method	TBLASTX:Maize
Start	474	End	771
GI	none	Score	92
Exons	474..527, 478..588, 479..592, 482..595, 519..602, 584..610, 685..741, 686..742, 687..743, 708..743, 709..771		

Seq. No.	55898	Seq. ID	OJ000323_26.0420.C34
Gene No.	117053	Strand	-
Start	1	End	771
Name	OJ000323_26.0420.C34.ol.tc	Method	TBLASTX:Cress
Start	479	End	771
GI	none	Score	115
Exons	479..595, 482..595, 519..602, 687..743, 709..771		

Seq. No.	55898	Seq. ID	OJ000323_26.0420.C34
Gene No.	117053	Strand	-
Start	1	End	771
Name	OJ000323_26.0420.C34.ol.tw	Method	TBLASTX:Wheat
Start	479	End	771
GI	none	Score	104
Exons	479..592, 482..595, 519..602, 687..743, 695..742, 709..771		

Seq. No.	55898	Seq. ID	OJ000323_26.0420.C34
Gene No.	117053	Strand	-
Start	1	End	771
Name	OJ000323_26.0420.C34.ol.gp	Method	AAT/GAP
Start	480	End	745
GI	30676 1.R1084	Score	290
Exons	480..597, 686..745		
GI Descrip.	'2507281/sp P41917 RAN2_ARATH 5.0e-55 GTP-BINDING NUCLEAR PROTEIN RAN-2 >gi_1668706_emb_CAA66048_ (X97380) atran2 [Arabidopsis thaliana]'		

Seq. No.	55898	Seq. ID	OJ000323_26.0420.C34
Gene No.	117053	Strand	-
Start	1	End	771
Name	OJ000323_26.0420.C34.ol.gs	Method	GENSCAN
Start	480	End	742
GI	none	Score	.96

Exons 480..597, 686..742

Seq. No.	55899	Seq. ID	OJ000323_26.0420.C36
Gene No.	117054	Strand	+
Start	50	End	2820
Name	OJ000323_26.0420.C36.o1.gs	Method	GENSCAN
Start	50	End	2805
GI	none	Score	.7
Exons	50..185, 755..841, 847..955, 1042..2805		

Seq. No.	55899	Seq. ID	OJ000323_26.0420.C36
Gene No.	117054	Strand	+
Start	50	End	2820
Name	OJ000323_26.0420.C36.o1.tm	Method	TBLASTX:Maize
Start	2368	End	2820
GI	none	Score	122
Exons	2368..2550, 2370..2639, 2371..2505, 2385..2600, 2583..2687, 2616..2687, 2620..2685, 2620..2820, 2623..2685, 2624..2803, 2640..2813		

Seq. No.	55900	Seq. ID	OJ000323_26.0420.C37
Gene No.	117055	Strand	+
Start	1	End	237
Name	OJ000323_26.0420.C37.o1.gp	Method	AAT/GAP
Start	1	End	237
GI	none	Score	438
Exons	1..237		

Seq. No.	55900	Seq. ID	OJ000323_26.0420.C37
Gene No.	117056	Strand	+
Start	415	End	891
Name	OJ000323_26.0420.C37.o2.gp	Method	AAT/GAP
Start	415	End	891
GI	86315 1.R1084	Score	702
Exons	415..891		
GI Descrip.	'3080405 emb CAA18725.1 1.0e-18 (AL022603) Lsd1 like protein [Arabidopsis thaliana] >gi_4455269_emb_CAB36805.1_ (AL035527) Lsd1 like protein [Arabidopsis thaliana]'		

Seq. No.	55901	Seq. ID	OJ000323_26.0420.C38
Gene No.	117057	Strand	+
Start	1	End	1887
Name	OJ000323_26.0420.C38.o1.np	Method	AAT/NAP
Start	1	End	1630
GI	7487945	Score	200
Exons	1..189, 678..787, 1553..1630		
GI Descrip.	Lsd1 protein homolog F18E5.230 - Arabidopsis thaliana gi 3080405 emb CAA18725.1 (AL022603) Lsd1 like protein [Arabidopsis thaliana] gi 4455269 emb CAB36805.1 (AL035527) Lsd1 like protein [Arabidopsis thaliana] gi 7268958 emb CAB81268.1 (AL161555) Lsd1 like protein [Arabidopsis thaliana]		

Seq. No.	55901	Seq. ID	OJ000323_26.0420.C38
Gene No.	117057	Strand	+
Start	1	End	1887
Name	OJ000323_26.0420.C38.o1.gp	Method	AAT/GAP

Start	77	End	1887
GI	86315_1.R1084	Score	962
Exons	77..189, 678..787, 1553..1887		
GI Descrip.	'3080405/emb CAA18725.1 1.0e-18 (AL022603) Lsd1 like protein [Arabidopsis thaliana] >gi_4455269_emb_CAB36805.1_ (AL035527) Lsd1 like protein [Arabidopsis thaliana]'		

Seq. No.	55901	Seq. ID	OJ000323_26.0420.C38
Gene No.	117058	Strand	+
Start	2656	End	3242
Name	OJ000323_26.0420.C38.o1.gs	Method	GENSCAN
Start	2656	End	3058
GI	none	Score	.77
Exons	2656..2811, 2921..3058		

Seq. No.	55901	Seq. ID	OJ000323_26.0420.C38
Gene No.	117058	Strand	+
Start	2656	End	3242
Name	OJ000323_26.0420.C38.o1.tm	Method	TBLASTX:Maize
Start	2916	End	3242
GI	none	Score	279
Exons	2916..3071, 2918..3064, 3183..3242, 3185..3229		

Seq. No.	55901	Seq. ID	OJ000323_26.0420.C38
Gene No.	117058	Strand	+
Start	2656	End	3242
Name	OJ000323_26.0420.C38.o1.ts	Method	TBLASTX:Soybean
Start	2916	End	3059
GI	none	Score	191
Exons	2916..3059, 2921..3058		

Seq. No.	55902	Seq. ID	OJ000323_26.0420.C40
Gene No.	117059	Strand	+
Start	6105	End	7594
Name	OJ000323_26.0420.C40.o3.gs	Method	GENSCAN
Start	6105	End	7594
GI	none	Score	.86
Exons	6105..6119, 7204..7594		

Seq. No.	55902	Seq. ID	OJ000323_26.0420.C40
Gene No.	117059	Strand	+
Start	6105	End	7594
Name	OJ000323_26.0420.C40.o2.np	Method	AAT/NAP
Start	7318	End	7594
GI	7523500	Score	142
Exons	7318..7594		
GI Descrip.	(AP001633) ESTs AU075812(E60850),AU075811(E60850) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana lipase mRNA (U38916) [Oryza sativa]		

Seq. No.	55902	Seq. ID	OJ000323_26.0420.C40
Gene No.	117060	Strand	-
Start	141	End	2228
Name	OJ000323_26.0420.C40.o1.np	Method	AAT/NAP
Start	141	End	2228
GI	7523517	Score	325
Exons	141..167, 1733..1786, 1930..2228		

GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. No.	55902	Seq. ID	OJ000323_26.0420.C40
Gene No.	117061	Strand	-
Start	2687	End	3157
Name	OJ000323_26.0420.C40.o2.gs	Method	GENSCAN
Start	2687	End	3157
GI	none	Score	.84
Exons	2687..3157		

Seq. No.	55902	Seq. ID	OJ000323_26.0420.C40
Gene No.	117062	Strand	
Start	7423	End	7578
Name	OJ000323_26.0420.C40.o1.tm	Method	TBLASTX:Maize
Start	7423	End	7578
GI	none	Score	273
Exons	7423..7578, 7425..7535		

Seq. No.	55903	Seq. ID	OJ000323_26.0420.C41
Gene No.	117063	Strand	+
Start	1	End	746
Name	OJ000323_26.0420.C41.o1.np	Method	AAT/NAP
Start	1	End	746
GI	6691211	Score	79
Exons	1..201, 719..746		

GI Descrip. (AC007508) FlK23.16 [Arabidopsis thaliana]

Seq. No.	55903	Seq. ID	OJ000323_26.0420.C41
Gene No.	117063	Strand	+
Start	1	End	746
Name	OJ000323_26.0420.C41.o1.tm	Method	TBLASTX:Maize
Start	1	End	129
GI	none	Score	226
Exons	1..129, 2..127, 43..129		

Seq. No.	55904	Seq. ID	OJ000323_26.0420.C43
Gene No.	117064	Strand	+
Start	1085	End	1133
Name	OJ000323_26.0420.C43.o1.gs	Method	GENSCAN
Start	1085	End	1133
GI	none	Score	.91
Exons	1085..1133		

Seq. No.	55905	Seq. ID	OJ000323_26.0420.C45
Gene No.	117065	Strand	-
Start	1	End	809
Name	OJ000323_26.0420.C45.o1.gp	Method	AAT/GAP
Start	1	End	248
GI	5005512	Score	430
Exons	1..248		

GI Descrip. 3335376 1.0e-24 (AC003028) putative ammonium transporter [Arabidopsis thaliana]

Seq. No.	55905	Seq. ID	OJ000323_26.0420.C45
Gene No.	117065	Strand	-
Start	1	End	809
Name	OJ000323_26.0420.C45.o1.np	Method	AAT/NAP

Start	1	End	809
GI	7140936	Score	238
Exons	1..285, 743..809		
GI Descrip.	(AF182039) ammonium transporter [Arabidopsis thaliana]		

Seq. No.	55905	Seq. ID	OJ000323_26.0420.C45
Gene No.	117065	Strand	-
Start	1	End	809
Name	OJ000323_26.0420.C45.o1.ts	Method	TBLASTX:Soybean
Start	2	End	196
GI	none	Score	171
Exons	2..169, 3..170, 161..196, 162..182		

Seq. No.	55905	Seq. ID	OJ000323_26.0420.C45
Gene No.	117065	Strand	-
Start	1	End	809
Name	OJ000323_26.0420.C45.o1.gs	Method	GENSCAN
Start	38	End	430
GI	none	Score	.6
Exons	38..210, 328..430		

Seq. No.	55905	Seq. ID	OJ000323_26.0420.C45
Gene No.	117065	Strand	-
Start	1	End	809
Name	OJ000323_26.0420.C45.o1.tm	Method	TBLASTX:Maize
Start	69	End	295
GI	none	Score	134
Exons	69..206, 71..205, 190..288, 200..295		

Seq. No.	55906	Seq. ID	OJ000323_26.0420.C47
Gene No.	117066	Strand	-
Start	2118	End	2440
Name	OJ000323_26.0420.C47.o1.tm	Method	TBLASTX:Maize
Start	2007	End	2427
GI	none	Score	39
Exons	2007..2087, 2009..2113, 2118..2405, 2118..2426, 2122..2427		

Seq. No.	55906	Seq. ID	OJ000323_26.0420.C47
Gene No.	117066	Strand	-
Start	2118	End	2440
Name	OJ000323_26.0420.C47.o1.ts	Method	TBLASTX:Soybean
Start	2107	End	2427
GI	none	Score	201
Exons	2107..2427, 2109..2426		

Seq. No.	55906	Seq. ID	OJ000323_26.0420.C47
Gene No.	117066	Strand	-
Start	2118	End	2440
Name	OJ000323_26.0420.C47.o1.gs	Method	GENSCAN
Start	2118	End	2309
GI	none	Score	.58
Exons	2118..2309		

Seq. No.	55906	Seq. ID	OJ000323_26.0420.C47
Gene No.	117066	Strand	-
Start	2118	End	2440
Name	OJ000323_26.0420.C47.o1.np	Method	AAT/NAP

Start	2121	End	2440
GI	7489554	Score	470
Exons	2121..2440		
GI Descrip.	probable ribosomal protein S11, mitochondrial - rice gi 1841357 dbj BAA12798.1 (D85382) mitochondrial ribosomal protein S11 (nuclear encoded) [Oryza sativa]		

Seq. No.	55906	Seq. ID	OJ000323_26.0420.C47
Gene No.	117066	Strand	-
Start	2118	End	2440
Name	OJ000323_26.0420.C47.ol.tw	Method	TBLASTX:Wheat
Start	2130	End	2340
GI	none	Score	113
Exons	2130..2258, 2130..2336, 2137..2337, 2161..2340		

Seq. No.	55907	Seq. ID	OJ000323_26.0420.C48
Gene No.	117067	Strand	+
Start	1	End	1984
Name	OJ000323_26.0420.C48.ol.np	Method	AAT/NAP
Start	1	End	1984
GI	2895945	Score	214
Exons	1..39, 115..233, 318..773, 1297..1433, 1524..1604, 1693..1757, 1918..1984		
GI Descrip.	(AF045888) putative DNA cytosine methyltransferase DNMT2 [Homo sapiens]		

Seq. No.	55907	Seq. ID	OJ000323_26.0420.C48
Gene No.	117067	Strand	+
Start	1	End	1984
Name	OJ000323_26.0420.C48.ol.gs	Method	GENSCAN
Start	99	End	1604
GI	none	Score	.72
Exons	99..233, 318..440, 812..1022, 1112..1187, 1357..1405, 1449..1604		

Seq. No.	55907	Seq. ID	OJ000323_26.0420.C48
Gene No.	117067	Strand	+
Start	1	End	1984
Name	OJ000323_26.0420.C48.ol.tm	Method	TBLASTX:Maize
Start	122	End	1981
GI	none	Score	137
Exons	122..220, 123..242, 315..383, 316..369, 317..379, 358..441, 372..440, 379..447, 380..466, 381..446, 796..882, 812..940, 881..967, 1086..1208, 1100..1210, 1105..1215, 1309..1404, 1310..1402, 1509..1616, 1536..1604, 1543..1605, 1680..1766, 1690..1788, 1692..1760, 1916..1981, 1918..1977, 1919..1981		

Seq. No.	55908	Seq. ID	OJ000323_26.0420.C49
Gene No.	117068	Strand	+
Start	172	End	2747
Name	OJ000323_26.0420.C49.ol.np	Method	AAT/NAP
Start	172	End	2726
GI	7486341	Score	1122
Exons	172..2726		
GI Descrip.	hypothetical protein F28P10.40 - Arabidopsis thaliana gi 4678295 emb CAB41086.1 (AL049655) putative protein [Arabidopsis thaliana]		

Seq. No.	55908	Seq. ID	OJ000323_26.0420.C49
Gene No.	117068	Strand	+
Start	172	End	2747
Name	OJ000323_26.0420.C49.ol.gs	Method	GENSCAN
Start	345	End	2747
GI	none	Score	.72
Exons	345..2058, 2218..2747		

Seq. No.	55908	Seq. ID	OJ000323_26.0420.C49
Gene No.	117068	Strand	+
Start	172	End	2747
Name	OJ000323_26.0420.C49.ol.ts	Method	TBLASTX:Soybean
Start	843	End	2678
GI	none	Score	115
Exons	843..1106, 888..1493, 1059..1436, 1206..1493, 1232..1492, 1242..1418, 1311..1427, 1464..2240, 1494..1928, 1494..2063, 1578..2033, 1578..1802, 1584..1961, 1659..1808, 1761..1889, 1761..1880, 1791..2096, 1901..2368, 1904..2095, 1913..2056, 2007..2372, 2010..2453, 2139..2675, 2139..2675, 2217..2585, 2247..2438, 2322..2678, 2325..2678, 2414..2593		

Seq. No.	55908	Seq. ID	OJ000323_26.0420.C49
Gene No.	117068	Strand	+
Start	172	End	2747
Name	OJ000323_26.0420.C49.ol.tc	Method	TBLASTX:Cress
Start	858	End	2642
GI	none	Score	100
Exons	858..1196, 945..1166, 1092..1265, 1143..1373, 1164..1490, 1263..1493, 1470..1802, 1491..1721, 1521..1676, 1575..1910, 1668..1814, 1695..2045, 1785..2000, 1794..2105, 1926..2246, 1940..2056, 1995..2105, 2010..2327, 2079..2321, 2138..2179, 2139..2432, 2147..2314, 2151..2315, 2208..2429, 2210..2524, 2294..2608, 2310..2639, 2400..2642		

Seq. No.	55908	Seq. ID	OJ000323_26.0420.C49
Gene No.	117068	Strand	+
Start	172	End	2747
Name	OJ000323_26.0420.C49.ol.tm	Method	TBLASTX:Maize
Start	882	End	2678
GI	none	Score	145
Exons	882..1394, 1089..1466, 1235..1471, 1476..1733, 1494..1712, 1503..1916, 1506..1733, 1563..1712, 1704..2237, 1713..2240, 1926..2339, 2028..2504, 2139..2660, 2216..2512, 2244..2678, 2318..2617, 2448..2678		

Seq. No.	55909	Seq. ID	OJ000323_26.0420.C52
Gene No.	117069	Strand	-
Start	953	End	1347
Name	OJ000323_26.0420.C52.ol.gs	Method	GENSCAN
Start	953	End	1347
GI	none	Score	.74
Exons	953..1085, 1328..1347		

Seq. No.	55910	Seq. ID	OJ000323_26.0420.C55
Gene No.	117070	Strand	-
Start	1	End	446
Name	OJ000323_26.0420.C55.ol.np	Method	AAT/NAP

Start	1	End	241
GI	5903036	Score	138
Exons	1..67, 99..241		
GI Descrip.	(AC008016) F6D8.5 [Arabidopsis thaliana]		

Seq. No.	55910	Seq. ID	OJ000323_26.0420.C55
Gene No.	117070	Strand	-
Start	1	End	446
Name	OJ000323_26.0420.C55.o1.gp	Method	AAT/GAP
Start	99	End	446
GI	LIB3434-049-P1-K1-F9	Score	397
Exons	99..210, 313..446		
GI Descrip.	'5903036/gb AAD55595.1 AC008016_5 1.0e-36 (AC008016) F6D8.5 [Arabidopsis thaliana]'		

Seq. No.	55911	Seq. ID	OJ000403_26.0419.C1
Gene No.	117071	Strand	-
Start	1	End	805
Name	OJ000403_26.0419.C1.o1.gp	Method	AAT/GAP
Start	1	End	716
GI	15630 1.R1084	Score	1432
Exons	1..716		
GI Descrip.	'4432860/gb AAD20708 9.0e-28 (AC006300) putative glucose-induced repressor protein [Arabidopsis thaliana]'		

Seq. No.	55911	Seq. ID	OJ000403_26.0419.C1
Gene No.	117071	Strand	-
Start	1	End	805
Name	OJ000403_26.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	1	End	805
GI	none	Score	57
Exons	1..27, 36..125, 36..125, 37..126, 51..134, 91..186, 213..257, 219..257, 220..261, 226..270, 279..338, 288..356, 295..363, 299..364, 313..798, 331..513, 356..805, 356..736, 364..804, 517..648, 517..624, 523..624		

Seq. No.	55911	Seq. ID	OJ000403_26.0419.C1
Gene No.	117071	Strand	-
Start	1	End	805
Name	OJ000403_26.0419.C1.o1.gs	Method	GENSCAN
Start	295	End	798
GI	none	Score	.89
Exons	295..798		

Seq. No.	55911	Seq. ID	OJ000403_26.0419.C1
Gene No.	117071	Strand	-
Start	1	End	805
Name	OJ000403_26.0419.C1.o1.np	Method	AAT/NAP
Start	298	End	805
GI	4432860	Score	355
Exons	298..805		
GI Descrip.	(AC006300) putative glucose regulated repressor protein [Arabidopsis thaliana]		

Seq. No.	55911	Seq. ID	OJ000403_26.0419.C1
Gene No.	117071	Strand	-
Start	1	End	805

Name	OJ000403_26.0419.C1.ol.tc	Method	TBLASTX:Cress
Start	301	End	804
GI	none	Score	144
Exons	301..327, 331..513, 379..495, 478..804, 482..802, 526..651		

Seq. No.	55911	Seq. ID	OJ000403_26.0419.C1
Gene No.	117071	Strand	-
Start	1	End	805
Name	OJ000403_26.0419.C1.ol.ts	Method	TBLASTX:Soybean
Start	325	End	805
GI	none	Score	240
Exons	325..513, 367..804, 380..805, 517..669, 517..624, 580..741		

Seq. No.	55912	Seq. ID	OJ000403_26.0419.C2
Gene No.	117072	Strand	-
Start	1	End	1327
Name	OJ000403_26.0419.C2.ol.np	Method	AAT/NAP
Start	1	End	1327
GI	7488683	Score	452
Exons	1..472, 518..746, 1220..1327		
GI Descrip.	hypothetical protein GRR1 - soybean gi 2407790 gb AAB70660.1 (AF019910) grr1 [Glycine max]		

Seq. No.	55912	Seq. ID	OJ000403_26.0419.C2
Gene No.	117072	Strand	-
Start	1	End	1327
Name	OJ000403_26.0419.C2.ol.tc	Method	TBLASTX:Cress
Start	3	End	710
GI	none	Score	208
Exons	3..449, 7..477, 576..710		

Seq. No.	55912	Seq. ID	OJ000403_26.0419.C2
Gene No.	117072	Strand	-
Start	1	End	1327
Name	OJ000403_26.0419.C2.ol.tm	Method	TBLASTX:Maize
Start	3	End	713
GI	none	Score	73
Exons	3..56, 4..57, 6..266, 15..239, 21..233, 39..143, 49..267, 57..461, 60..284, 61..411, 87..206, 87..329, 93..230, 114..344, 117..224, 150..347, 156..308, 162..326, 175..348, 249..347, 663..713		

Seq. No.	55912	Seq. ID	OJ000403_26.0419.C2
Gene No.	117072	Strand	-
Start	1	End	1327
Name	OJ000403_26.0419.C2.ol.ts	Method	TBLASTX:Soybean
Start	3	End	710
GI	none	Score	60
Exons	3..74, 6..266, 15..155, 15..113, 48..233, 67..267, 75..461, 76..456, 84..224, 84..152, 96..224, 114..311, 117..224, 156..302, 189..290, 192..350, 252..359, 309..344, 576..710		

Seq. No.	55912	Seq. ID	OJ000403_26.0419.C2
Gene No.	117072	Strand	-
Start	1	End	1327
Name	OJ000403_26.0419.C2.ol.gs	Method	GENSCAN
Start	20	End	1016

GI	none	Score	.71
Exons	20..910, 992..1016		
Seq. No.	55912	Seq. ID	OJ000403_26.0419.C2
Gene No.	117072	Strand	-
Start	1	End	1327
Name	OJ000403_26.0419.C2.o1.gp	Method	AAT/GAP
Start	777	End	1041
GI	LIB3475-007-P1-K1-H1	Score	296
Exons	777..910, 992..1041		
GI Descrip.	'2632254/emb CAA73068 1.0e-17 (Y12465) serine/threonine kinase [Sorghum bicolor]'		

Seq. No.	55913	Seq. ID	OJ000403_26.0419.C3
Gene No.	117073	Strand	-
Start	1653	End	2333
Name	OJ000403_26.0419.C3.o1.gs	Method	GENSCAN
Start	1653	End	2333
GI	none	Score	.52
Exons	1653..1727, 1871..2333		

Seq. No.	55914	Seq. ID	OJ000403_26.0419.C4
Gene No.	117074	Strand	-
Start	2567	End	3454
Name	OJ000403_26.0419.C4.o2.gs	Method	GENSCAN
Start	2567	End	3454
GI	none	Score	.86
Exons	2567..2773, 3126..3207, 3447..3454		

Seq. No.	55915	Seq. ID	OJ000403_26.0419.C12
Gene No.	117075	Strand	+
Start	18	End	498
Name	OJ000403_26.0419.C12.o1.gp	Method	AAT/GAP
Start	18	End	498
GI	none	Score	872
Exons	18..498		

Seq. No.	55915	Seq. ID	OJ000403_26.0419.C12
Gene No.	117076	Strand	-
Start	515	End	1703
Name	OJ000403_26.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	489	End	1254
GI	none	Score	71
Exons	489..608, 500..577, 509..637, 510..608, 511..609, 812..892, 816..893, 817..894, 818..892, 975..1049, 976..1050, 993..1052, 994..1053, 1132..1251, 1133..1252, 1135..1254		

Seq. No.	55915	Seq. ID	OJ000403_26.0419.C12
Gene No.	117076	Strand	-
Start	515	End	1703
Name	OJ000403_26.0419.C12.o1.np	Method	AAT/NAP
Start	515	End	1703
GI	7453645	Score	242
Exons	515..607, 817..891, 995..1051, 1135..1251, 1667..1703		
GI Descrip.	(AF237670) serine/threonine protein kinase SOS2 [Arabidopsis thaliana]		

Seq. No.	55915	Seq. ID	OJ000403_26.0419.C12
Gene No.	117076	Strand	-
Start	515	End	1703
Name	OJ000403_26.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	533	End	1251
GI	none	Score	88
Exons	533..610, 817..894, 818..892, 971..1054, 978..1043, 1114..1236, 1130..1246, 1132..1251		

Seq. No.	55915	Seq. ID	OJ000403_26.0419.C12
Gene No.	117076	Strand	-
Start	515	End	1703
Name	OJ000403_26.0419.C12.o1.gs	Method	GENSCAN
Start	784	End	1251
GI	none	Score	.71
Exons	784..891, 995..1051, 1135..1251		

Seq. No.	55915	Seq. ID	OJ000403_26.0419.C12
Gene No.	117076	Strand	-
Start	515	End	1703
Name	OJ000403_26.0419.C12.o2.gp	Method	AAT/GAP
Start	991	End	1471
GI	17868_1.R1084	Score	288
Exons	991..1051, 1135..1255, 1435..1471		
GI Descrip.	'2632254/emb CAA73068 1.0e-17 (Y12465) serine/threonine kinase [Sorghum bicolor]'		

Seq. No.	55916	Seq. ID	OJ000403_26.0419.C13
Gene No.	117077	Strand	-
Start	1	End	1171
Name	OJ000403_26.0419.C13.o1.gp	Method	AAT/GAP
Start	1	End	1064
GI	17868_1.R1084	Score	497
Exons	1..212, 712..765, 850..924, 1018..1064		
GI Descrip.	'2632254/emb CAA73068 1.0e-17 (Y12465) serine/threonine kinase [Sorghum bicolor]'		

Seq. No.	55916	Seq. ID	OJ000403_26.0419.C13
Gene No.	117077	Strand	-
Start	1	End	1171
Name	OJ000403_26.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	1171
GI	7453645	Score	396
Exons	1..212, 712..765, 850..924, 1018..1171		
GI Descrip.	(AF237670) serine/threonine protein kinase SOS2 [Arabidopsis thaliana]		

Seq. No.	55916	Seq. ID	OJ000403_26.0419.C13
Gene No.	117077	Strand	-
Start	1	End	1171
Name	OJ000403_26.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	63	End	1123
GI	none	Score	157
Exons	63..212, 83..217, 84..218, 86..214, 705..764, 709..768, 709..804, 853..924, 863..928, 864..926, 1007..1120, 1018..1122, 1019..1123		

Seq. No.	55916	Seq. ID	OJ000403_26.0419.C13
Gene No.	117077	Strand	-
Start	1	End	1171
Name	OJ000403_26.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	63	End	1120
GI	none	Score	83
Exons	63..212, 86..277, 87..218, 709..759, 711..800, 839..928, 847..924, 1018..1116, 1019..1120		

Seq. No.	55916	Seq. ID	OJ000403_26.0419.C13
Gene No.	117077	Strand	-
Start	1	End	1171
Name	OJ000403_26.0419.C13.o1.gs	Method	GENSCAN
Start	87	End	1125
GI	none	Score	.92
Exons	87..212, 712..804, 850..924, 1018..1125		

Seq. No.	55916	Seq. ID	OJ000403_26.0419.C13
Gene No.	117077	Strand	-
Start	1	End	1171
Name	OJ000403_26.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	105	End	1116
GI	none	Score	75
Exons	105..212, 133..213, 709..759, 711..746, 712..759, 830..925, 847..924, 853..927, 1018..1116, 1022..1105		

Seq. No.	55917	Seq. ID	OJ000403_26.0419.C15
Gene No.	117078	Strand	+
Start	1	End	1530
Name	OJ000403_26.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	1530
GI	4680203	Score	1791
Exons	1..1346, 1499..1530		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	55917	Seq. ID	OJ000403_26.0419.C15
Gene No.	117078	Strand	+
Start	1	End	1530
Name	OJ000403_26.0419.C15.o2.tw	Method	TBLASTX:Wheat
Start	6	End	375
GI	none	Score	47
Exons	6..107, 24..113, 122..364, 123..365, 133..375		

Seq. No.	55917	Seq. ID	OJ000403_26.0419.C15
Gene No.	117078	Strand	+
Start	1	End	1530
Name	OJ000403_26.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	296	End	725
GI	none	Score	97
Exons	296..379, 297..371, 372..434, 429..725, 461..712		

Seq. No.	55917	Seq. ID	OJ000403_26.0419.C15
Gene No.	117078	Strand	+
Start	1	End	1530
Name	OJ000403_26.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	458	End	806
GI	none	Score	307

Exons 458..610, 465..806, 659..802

Seq. No.	55917	Seq. ID	OJ000403_26.0419.C15
Gene No.	117078	Strand	+
Start	1	End	1530
Name	OJ000403_26.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	594	End	1063
GI	none	Score	64
Exons	594..650, 602..646, 647..748, 648..752, 756..854, 761..853, 764..856, 834..1058, 855..1058, 857..1063, 959..1063		

Seq. No.	55917	Seq. ID	OJ000403_26.0419.C15
Gene No.	117078	Strand	+
Start	1	End	1530
Name	OJ000403_26.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	641	End	1097
GI	none	Score	251
Exons	641..892, 651..893, 903..1097		

Seq. No.	55917	Seq. ID	OJ000403_26.0419.C15
Gene No.	117078	Strand	+
Start	1	End	1530
Name	OJ000403_26.0419.C15.o2.ts	Method	TBLASTX:Soybean
Start	927	End	1169
GI	none	Score	213
Exons	927..1169, 1013..1111		

Seq. No.	55917	Seq. ID	OJ000403_26.0419.C15
Gene No.	117078	Strand	+
Start	1	End	1530
Name	OJ000403_26.0419.C15.o3.tw	Method	TBLASTX:Wheat
Start	1202	End	1492
GI	none	Score	87
Exons	1202..1252, 1203..1265, 1251..1403, 1266..1382, 1384..1452, 1385..1492		

Seq. No.	55918	Seq. ID	OJ000403_26.0419.C16
Gene No.	117079	Strand	+
Start	1	End	1112
Name	OJ000403_26.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	1112
GI	4680203	Score	996
Exons	1..72, 134..1112		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	55918	Seq. ID	OJ000403_26.0419.C16
Gene No.	117080	Strand	-
Start	2172	End	2261
Name	OJ000403_26.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	27	End	1052
GI	none	Score	42
Exons	27..59, 28..60, 58..177, 58..207, 60..659, 65..643, 654..698, 657..698, 701..736, 705..764, 771..872, 774..890, 812..892, 896..949, 897..977, 966..1052, 992..1048		

Seq. No.	55918	Seq. ID	OJ000403_26.0419.C16
Gene No.	117080	Strand	-

Start	2172	End	2261
Name	OJ000403_26.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	54	End	477
GI	none	Score	77
Exons	54..230, 55..171, 62..364, 66..476, 68..472, 226..477, 327..476		

Seq. No.	55918	Seq. ID	OJ000403_26.0419.C16
Gene No.	117080	Strand	-
Start	2172	End	2261
Name	OJ000403_26.0419.C16.o2.gs	Method	GENSCAN
Start	2172	End	2261
GI	none	Score	.56
Exons	2172..2261		

Seq. No.	55919	Seq. ID	OJ000403_26.0419.C17
Gene No.	117081	Strand	-
Start	627	End	756
Name	OJ000403_26.0419.C17.o1.gp	Method	AAT/GAP
Start	627	End	756
GI	3760640	Score	75
Exons	627..648, 703..756		
GI Descrip.	4176420/dbj BAA37167 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	55920	Seq. ID	OJ000403_26.0419.C18
Gene No.	117082	Strand	+
Start	1890	End	4049
Name	OJ000403_26.0419.C18.o1.gs	Method	GENSCAN
Start	1890	End	4049
GI	none	Score	.73
Exons	1890..1950, 2135..2403, 2495..2706, 2932..3579, 3668..3841, 3939..4049		

Seq. No.	55920	Seq. ID	OJ000403_26.0419.C18
Gene No.	117082	Strand	+
Start	1890	End	4049
Name	OJ000403_26.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	2335	End	2707
GI	none	Score	62
Exons	2335..2406, 2489..2707		

Seq. No.	55921	Seq. ID	OJ000403_26.0419.C19
Gene No.	117083	Strand	+
Start	265	End	366
Name	OJ000403_26.0419.C19.o1.gs	Method	GENSCAN
Start	265	End	366
GI	none	Score	.66
Exons	265..366		

Seq. No.	55921	Seq. ID	OJ000403_26.0419.C19
Gene No.	117084	Strand	+
Start	5696	End	7158
Name	OJ000403_26.0419.C19.o1.gp	Method	AAT/GAP
Start	5696	End	7158
GI	2309840	Score	627
Exons	5696..5970, 7085..7158		
GI Descrip.	2632254/emb CAA73068 1.0e-17 (Y12465) serine/threonine kinase		

[Sorghum bicolor]

Seq. No.	55921	Seq. ID	OJ000403_26.0419.C19
Gene No.	117084	Strand	+
Start	5696	End	7158
Name	OJ000403_26.0419.C19.o1.np	Method	AAT/NAP
Start	5800	End	7158
GI	7446371	Score	218
Exons	5800..5970, 7085..7158		
GI Descrip.	probable serine/threonine kinase (EC 2.7.1.-) SNFL1 - sorghum gi 2632252 emb CAA73067.1 (Y12464) serine/threonine kinase [Sorghum bicolor]		

Seq. No.	55921	Seq. ID	OJ000403_26.0419.C19
Gene No.	117084	Strand	+
Start	5696	End	7158
Name	OJ000403_26.0419.C19.o2.np	Method	AAT/NAP
Start	5917	End	7158
GI	7453645	Score	102
Exons	5917..5970, 7085..7158		
GI Descrip.	(AF237670) serine/threonine protein kinase SOS2 [Arabidopsis thaliana]		

Seq. No.	55921	Seq. ID	OJ000403_26.0419.C19
Gene No.	117085	Strand	-
Start	567	End	3798
Name	OJ000403_26.0419.C19.o2.gs	Method	GENSCAN
Start	567	End	3798
GI	none	Score	.91
Exons	567..671, 755..787, 3766..3798		

Seq. No.	55921	Seq. ID	OJ000403_26.0419.C19
Gene No.	117086	Strand	-
Start	5670	End	7152
Name	OJ000403_26.0419.C19.o3.gs	Method	GENSCAN
Start	5670	End	5960
GI	none	Score	.44
Exons	5670..5960		

Seq. No.	55921	Seq. ID	OJ000403_26.0419.C19
Gene No.	117086	Strand	-
Start	5670	End	7152
Name	OJ000403_26.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	5805	End	7152
GI	none	Score	251
Exons	5805..5975, 5806..5973, 7082..7150, 7082..7150, 7084..7152		

Seq. No.	55921	Seq. ID	OJ000403_26.0419.C19
Gene No.	117086	Strand	-
Start	5670	End	7152
Name	OJ000403_26.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	5817	End	7150
GI	none	Score	186
Exons	5817..5951, 5818..5973, 7081..7149, 7082..7150		

Seq. No.	55921	Seq. ID	OJ000403_26.0419.C19
Gene No.	117086	Strand	-

Start	5670	End	7152
Name	OJ000403_26.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	5818	End	7150
GI	none	Score	186
Exons	5818..5973, 5823..5939, 7081..7149, 7082..7150		
Seq. No.	55922	Seq. ID	OJ000403_26.0419.C21
Gene No.	117087	Strand	+
Start	357	End	1780
Name	OJ000403_26.0419.C21.o1.gs	Method	GENSCAN
Start	357	End	1780
GI	none	Score	.63
Exons	357..521, 1508..1780		
Seq. No.	55923	Seq. ID	OJ000403_26.0419.C22
Gene No.	117088	Strand	-
Start	2057	End	3477
Name	OJ000403_26.0419.C22.o2.np	Method	AAT/NAP
Start	1014	End	3477
GI	7438357	Score	96
Exons	1014..1112, 2538..2779, 3074..3241, 3455..3477		
GI Descrip.	myb-related protein 3 homolog T26B15.2 - Arabidopsis thaliana gi 3298534 gb AAC25928.1 (AC004681) putative MYB family transcription factor [Arabidopsis thaliana]		
Seq. No.	55923	Seq. ID	OJ000403_26.0419.C22
Gene No.	117088	Strand	-
Start	2057	End	3477
Name	OJ000403_26.0419.C22.o1.np	Method	AAT/NAP
Start	1056	End	3180
GI	7438355	Score	75
Exons	1056..1130, 2954..3180		
GI Descrip.	myb-related protein - barley gi 1200239 emb CAA61021.1 (X87690) GAMyb protein [Hordeum vulgare]		
Seq. No.	55923	Seq. ID	OJ000403_26.0419.C22
Gene No.	117088	Strand	-
Start	2057	End	3477
Name	OJ000403_26.0419.C22.o1.gp	Method	AAT/GAP
Start	1914	End	2083
GI	2796906	Score	309
Exons	1914..2083		
Seq. No.	55923	Seq. ID	OJ000403_26.0419.C22
Gene No.	117088	Strand	-
Start	2057	End	3477
Name	OJ000403_26.0419.C22.o1.gs	Method	GENSCAN
Start	2057	End	3338
GI	none	Score	.75
Exons	2057..2242, 2443..3180, 3300..3338		
Seq. No.	55924	Seq. ID	OJ000403_26.0419.C29
Gene No.	117089	Strand	+
Start	682	End	1065
Name	OJ000403_26.0419.C29.o1.gp	Method	AAT/GAP
Start	682	End	1065
GI	uC-osflcyp033a04b1	Score	655

Exons 682..1065
GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 55924 Seq. ID OJ000403_26.0419.C29
Gene No. 117090 Strand -
Start 612 End 1739
Name OJ000403_26.0419.C29.o1.gs Method GENSCAN
Start 612 End 1633
GI none Score .67
Exons 612..817, 914..967, 1441..1633

Seq. No. 55924 Seq. ID OJ000403_26.0419.C29
Gene No. 117090 Strand -
Start 612 End 1739
Name OJ000403_26.0419.C29.o1.np Method AAT/NAP
Start 615 End 1739
GI 4680186 Score 385
Exons 615..817, 1653..1739
GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. No. 55925 Seq. ID OJ000403_26.0419.C30
Gene No. 117091 Strand +
Start 1189 End 2076
Name OJ000403_26.0419.C30.o2.gs Method GENSCAN
Start 1189 End 2039
GI none Score .62
Exons 1189..1258, 1368..1508, 1701..2039

Seq. No. 55925 Seq. ID OJ000403_26.0419.C30
Gene No. 117091 Strand +
Start 1189 End 2076
Name OJ000403_26.0419.C30.o3.np Method AAT/NAP
Start 1388 End 2076
GI 6907089 Score 255
Exons 1388..2076
GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. No. 55925 Seq. ID OJ000403_26.0419.C30
Gene No. 117091 Strand +
Start 1189 End 2076
Name OJ000403_26.0419.C30.o2.np Method AAT/NAP
Start 1409 End 2076
GI 6721558 Score 125
Exons 1409..1511, 2022..2076
GI Descrip. (AP001073) hypothetical protein [Oryza sativa]
gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]

Seq. No. 55925 Seq. ID OJ000403_26.0419.C30
Gene No. 117092 Strand -
Start 1 End 998
Name OJ000403_26.0419.C30.o1.np Method AAT/NAP
Start 1 End 998
GI 7523517 Score 281
Exons 1..37, 486..559, 704..998
GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. No.	55926	Seq. ID	OJ000403_26.0419.C33
Gene No.	117093	Strand	+
Start	321	End	493
Name	OJ000403_26.0419.C33.o1.np	Method	AAT/NAP
Start	321	End	493
GI	6063554	Score	114
Exons	321..493		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55927	Seq. ID	OJ000403_26.0419.C38
Gene No.	117094	Strand	-
Start	1	End	3454
Name	OJ000403_26.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	3454
GI	7228457	Score	1592
Exons	1..284, 881..1696, 1754..3280, 3387..3454		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	55927	Seq. ID	OJ000403_26.0419.C38
Gene No.	117094	Strand	-
Start	1	End	3454
Name	OJ000403_26.0419.C38.o1.tw	Method	TBLASTX:Wheat
Start	882	End	1238
GI	none	Score	131
Exons	882..1226, 882..1238		

Seq. No.	55927	Seq. ID	OJ000403_26.0419.C38
Gene No.	117094	Strand	-
Start	1	End	3454
Name	OJ000403_26.0419.C38.o2.tm	Method	TBLASTX:Maize
Start	882	End	1103
GI	none	Score	198
Exons	882..1103		

Seq. No.	55927	Seq. ID	OJ000403_26.0419.C38
Gene No.	117094	Strand	-
Start	1	End	3454
Name	OJ000403_26.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	1107	End	1462
GI	none	Score	110
Exons	1107..1307, 1108..1299, 1268..1462, 1281..1400, 1304..1408		

Seq. No.	55927	Seq. ID	OJ000403_26.0419.C38
Gene No.	117094	Strand	-
Start	1	End	3454
Name	OJ000403_26.0419.C38.o4.tw	Method	TBLASTX:Wheat
Start	1239	End	1471
GI	none	Score	64
Exons	1239..1307; 1240..1296, 1277..1471, 1278..1469, 1301..1471		

Seq. No.	55927	Seq. ID	OJ000403_26.0419.C38
Gene No.	117094	Strand	-

Start	1	End	3454
Name	OJ000403_26.0419.C38.o2.tw	Method	TBLASTX:Wheat
Start	1472	End	2239
GI	none	Score	134
Exons	1472..1726, 1476..1637, 1784..2020, 1794..2018, 2057..2239, 2058..2231		

Seq. No.	55927	Seq. ID	OJ000403_26.0419.C38
Gene No.	117094	Strand	-
Start	1	End	3454
Name	OJ000403_26.0419.C38.o3.tw	Method	TBLASTX:Wheat
Start	2822	End	3219
GI	none	Score	124
Exons	2822..3046, 3043..3219		

Seq. No.	55928	Seq. ID	OJ000403_26.0419.C39
Gene No.	117095	Strand	-
Start	1	End	1716
Name	OJ000403_26.0419.C39.o1.np	Method	AAT/NAP
Start	1	End	1710
GI	4580990	Score	353
Exons	1..698, 1262..1710		
GI Descrip.	(AF120335) putative transposase [Arabidopsis thaliana]		

Seq. No.	55928	Seq. ID	OJ000403_26.0419.C39
Gene No.	117095	Strand	-
Start	1	End	1716
Name	OJ000403_26.0419.C39.o2.tm	Method	TBLASTX:Maize
Start	75	End	280
GI	none	Score	192
Exons	75..251, 79..279, 80..277, 80..280		

Seq. No.	55928	Seq. ID	OJ000403_26.0419.C39
Gene No.	117095	Strand	-
Start	1	End	1716
Name	OJ000403_26.0419.C39.o1.ts	Method	TBLASTX:Soybean
Start	94	End	307
GI	none	Score	150
Exons	94..297, 95..307		

Seq. No.	55928	Seq. ID	OJ000403_26.0419.C39
Gene No.	117095	Strand	-
Start	1	End	1716
Name	OJ000403_26.0419.C39.o1.gs	Method	GENSCAN
Start	376	End	1707
GI	none	Score	.93
Exons	376..765, 910..1707		

Seq. No.	55928	Seq. ID	OJ000403_26.0419.C39
Gene No.	117095	Strand	-
Start	1	End	1716
Name	OJ000403_26.0419.C39.o1.tm	Method	TBLASTX:Maize
Start	614	End	1530
GI	none	Score	65
Exons	614..697, 614..709, 616..702, 616..711, 1260..1451, 1291..1530, 1292..1528, 1294..1530		

Seq. No.	55928	Seq. ID	OJ000403_26.0419.C39
Gene No.	117095	Strand	-
Start	1	End	1716
Name	OJ000403_26.0419.C39.o1.tw	Method	TBLASTX:Wheat
Start	1396	End	1716
GI	none	Score	200
Exons	1396..1716, 1418..1708		

Seq. No.	55929	Seq. ID	OJ000403_26.0419.C40
Gene No.	117096	Strand	+
Start	116	End	455
Name	OJ000403_26.0419.C40.o1.gs	Method	GENSCAN
Start	116	End	455
GI	none	Score	.93
Exons	116..197, 430..455		

Seq. No.	55929	Seq. ID	OJ000403_26.0419.C40
Gene No.	117097	Strand	-
Start	908	End	2253
Name	OJ000403_26.0419.C40.o2.gs	Method	GENSCAN
Start	908	End	2253
GI	none	Score	.76
Exons	908..1090, 1186..1315, 1432..1614, 1753..2253		

Seq. No.	55929	Seq. ID	OJ000403_26.0419.C40
Gene No.	117097	Strand	-
Start	908	End	2253
Name	OJ000403_26.0419.C40.o2.tm	Method	TBLASTX:Maize
Start	1117	End	1323
GI	none	Score	182
Exons	1117..1323, 1118..1318		

Seq. No.	55929	Seq. ID	OJ000403_26.0419.C40
Gene No.	117097	Strand	-
Start	908	End	2253
Name	OJ000403_26.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	1441	End	2111
GI	none	Score	84
Exons	1441..1503, 1442..1504, 1443..1505, 1446..1508, 1500..1616, 1501..1575, 1689..1925, 1696..2106, 1698..2111		

Seq. No.	55930	Seq. ID	OJ000403_26.0419.C41
Gene No.	117098	Strand	-
Start	1349	End	4249
Name	OJ000403_26.0419.C41.o1.gs	Method	GENSCAN
Start	1349	End	4249
GI	none	Score	.81
Exons	1349..1573, 1807..2190, 3556..3774, 4074..4249		

Seq. No.	55931	Seq. ID	OJ000403_26.0419.C42
Gene No.	117099	Strand	-
Start	1451	End	1880
Name	OJ000403_26.0419.C42.o1.gs	Method	GENSCAN
Start	1451	End	1880
GI	none	Score	.94
Exons	1451..1613, 1750..1880		

Seq. No.	55932	Seq. ID	OJ000403_26.0419.C43
Gene No.	117100	Strand	+
Start	79	End	449
Name	OJ000403_26.0419.C43.o1.gs	Method	GENSCAN
Start	79	End	449
GI	none	Score	.93
Exons	79..283, 385..449		

Seq. No.	55932	Seq. ID	OJ000403_26.0419.C43
Gene No.	117101	Strand	-
Start	1093	End	1643
Name	OJ000403_26.0419.C43.o2.gs	Method	GENSCAN
Start	1093	End	1643
GI	none	Score	.73
Exons	1093..1120, 1537..1643		

Seq. No.	55933	Seq. ID	OJ000403_26.0419.C44
Gene No.	117102	Strand	+
Start	832	End	1118
Name	OJ000403_26.0419.C44.o1.gs	Method	GENSCAN
Start	832	End	1118
GI	none	Score	.8
Exons	832..885, 1062..1118		

Seq. No.	55934	Seq. ID	OJ000403_26.0419.C45
Gene No.	117103	Strand	+
Start	1828	End	2132
Name	OJ000403_26.0419.C45.o1.gp	Method	AAT/GAP
Start	1828	End	2132
GI	3761745	Score	518
Exons	1828..2132		
GI Descrip.	4099436/gb U87250 MVU87250 3.0e-67 Mustela vison GT dinucleotide repeat, chromosome 2,3,5 and 7 centromeric		

Seq. No.	55934	Seq. ID	OJ000403_26.0419.C45
Gene No.	117104	Strand	-
Start	2072	End	2582
Name	OJ000403_26.0419.C45.o1.gs	Method	GENSCAN
Start	2072	End	2582
GI	none	Score	1
Exons	2072..2298, 2414..2582		

Seq. No.	55935	Seq. ID	OJ000403_26.0419.C46
Gene No.	117105	Strand	-
Start	994	End	1780
Name	OJ000403_26.0419.C46.o1.gs	Method	GENSCAN
Start	994	End	1780
GI	none	Score	.42
Exons	994..1067, 1696..1780		

Seq. No.	55936	Seq. ID	OJ000403_26.0419.C47
Gene No.	117106	Strand	+
Start	1	End	106
Name	OJ000403_26.0419.C47.o1.gp	Method	AAT/GAP
Start	1	End	106
GI	26906_2.R1084	Score	173
Exons	1..106		

GI Descrip. '4680488/gb|AF119222.1|AF119222 4.0e-33 Oryza sativa BAC clone
1.H19, complete sequence'

Seq. No.	55936	Seq. ID	OJ000403_26.0419.C47
Gene No.	117107	Strand	-
Start	877	End	3447
Name	OJ000403_26.0419.C47.o1.gs	Method	GENSCAN
Start	877	End	3447
GI	none	Score	.41
Exons	877..1274, 2053..2316, 2854..2984, 3440..3447		

Seq. No.	55936	Seq. ID	OJ000403_26.0419.C47
Gene No.	117108	Strand	-
Start	5603	End	5672
Name	OJ000403_26.0419.C47.o2.gp	Method	AAT/GAP
Start	5603	End	5672
GI	LIB3477-010-P1-K1-E11	Score	132
Exons	5603..5672		
GI Descrip.	'2352427 2.0e-31 (AF004161) peroxisomal Ca-dependent solute carrier [Oryctolagus cuniculus]'		

Seq. No.	55937	Seq. ID	OJ000403_26.0419.C48
Gene No.	117109	Strand	-
Start	1	End	964
Name	OJ000403_26.0419.C48.o1.gp	Method	AAT/GAP
Start	1	End	360
GI	LIB3477-010-P1-K1-E11	Score	437
Exons	1..112, 204..360		
GI Descrip.	'2352427 2.0e-31 (AF004161) peroxisomal Ca-dependent solute carrier [Oryctolagus cuniculus]'		

Seq. No.	55937	Seq. ID	OJ000403_26.0419.C48
Gene No.	117109	Strand	-
Start	1	End	964
Name	OJ000403_26.0419.C48.o1.np	Method	AAT/NAP
Start	3	End	964
GI	6841066	Score	502
Exons	3..115, 204..964		
GI Descrip.	(AF123303) calcium-binding transporter [Homo sapiens]		

Seq. No.	55937	Seq. ID	OJ000403_26.0419.C48
Gene No.	117109	Strand	-
Start	1	End	964
Name	OJ000403_26.0419.C48.o2.tm	Method	TBLASTX:Maize
Start	21	End	396
GI	none	Score	159
Exons	21..113, 22..114, 175..396, 176..394, 205..396, 238..342		

Seq. No.	55937	Seq. ID	OJ000403_26.0419.C48
Gene No.	117109	Strand	-
Start	1	End	964
Name	OJ000403_26.0419.C48.o1.ts	Method	TBLASTX:Soybean
Start	215	End	844
GI	none	Score	189
Exons	215..445, 217..534, 217..507, 505..837, 506..727, 511..843, 532..645, 685..795, 785..844		

Seq. No.	55937	Seq. ID	OJ000403_26.0419.C48
Gene No.	117109	Strand	-
Start	1	End	964
Name	OJ000403_26.0419.C48.o1.tm	Method	TBLASTX:Maize
Start	397	End	963
GI	none	Score	614
Exons	397..963, 397..963		

Seq. No.	55937	Seq. ID	OJ000403_26.0419.C48
Gene No.	117109	Strand	-
Start	1	End	964
Name	OJ000403_26.0419.C48.o2.ts	Method	TBLASTX:Soybean
Start	845	End	964
GI	none	Score	137
Exons	845..964, 847..963		

Seq. No.	55938	Seq. ID	OJ000403_26.0419.C50
Gene No.	117110	Strand	-
Start	1	End	856
Name	OJ000403_26.0419.C50.o1.np	Method	AAT/NAP
Start	1	End	856
GI	6983860	Score	1405
Exons	1..856		
GI. Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	55938	Seq. ID	OJ000403_26.0419.C50
Gene No.	117110	Strand	-
Start	1	End	856
Name	OJ000403_26.0419.C50.o1.gs	Method	GENSCAN
Start	40	End	856
GI	none	Score	.78
Exons	40..856		

Seq. No.	55938	Seq. ID	OJ000403_26.0419.C50
Gene No.	117110	Strand	-
Start	1	End	856
Name	OJ000403_26.0419.C50.o1.tw	Method	TBLASTX:Wheat
Start	95	End	448
GI	none	Score	65
Exons	95..445, 251..448		

Seq. No.	55938	Seq. ID	OJ000403_26.0419.C50
Gene No.	117110	Strand	-
Start	1	End	856
Name	OJ000403_26.0419.C50.o1.tm	Method	TBLASTX:Maize
Start	140	End	445
GI	none	Score	75
Exons	140..445, 209..445		

Seq. No.	55938	Seq. ID	OJ000403_26.0419.C50
Gene No.	117110	Strand	-
Start	1	End	856
Name	OJ000403_26.0419.C50.o2.tw	Method	TBLASTX:Wheat
Start	497	End	695
GI	none	Score	57
Exons	497..691, 497..694, 498..695		

Seq. No.	55939	Seq. ID	OJ000403_26.0419.C55
Gene No.	117111	Strand	+
Start	1	End	735
Name	OJ000403_26.0419.C55.o1.np	Method	AAT/NAP
Start	1	End	735
GI	7228457	Score	759
Exons	1..735		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSori, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	55939	Seq. ID	OJ000403_26.0419.C55
Gene No.	117111	Strand	+
Start	1	End	735
Name	OJ000403_26.0419.C55.o1.tw	Method	TBLASTX:Wheat
Start	35	End	416
GI	none	Score	332
Exons	35..379, 36..416		

Seq. No.	55939	Seq. ID	OJ000403_26.0419.C55
Gene No.	117111	Strand	+
Start	1	End	735
Name	OJ000403_26.0419.C55.o1.tm	Method	TBLASTX:Maize
Start	53	End	436
GI	none	Score	197
Exons	53..322, 60..323, 321..434, 332..436		

Seq. No.	55939	Seq. ID	OJ000403_26.0419.C55
Gene No.	117111	Strand	+
Start	1	End	735
Name	OJ000403_26.0419.C55.o1.gs	Method	GENSCAN
Start	196	End	688
GI	none	Score	.71
Exons	196..360, 465..688		

Seq. No.	55939	Seq. ID	OJ000403_26.0419.C55
Gene No.	117111	Strand	+
Start	1	End	735
Name	OJ000403_26.0419.C55.o2.tw	Method	TBLASTX:Wheat
Start	423	End	733
GI	none	Score	74
Exons	423..488, 452..733, 559..666		

Seq. No.	55940	Seq. ID	OJ000313_28.0420.C1
Gene No.	117112	Strand	-
Start	1	End	725
Name	OJ000313_28.0420.C1.o1.np	Method	AAT/NAP
Start	1	End	725
GI	6630685	Score	798
Exons	1..725		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	55940	Seq. ID	OJ000313_28.0420.C1
Gene No.	117112	Strand	-
Start	1	End	725

Name	OJ000313_28.0420.C1.o1.ts	Method	TBLASTX:Soybean
Start	11	End	361
GI	none	Score	42
Exons	11..361, 18..104, 183..332		
Seq. No.	55940	Seq. ID	OJ000313_28.0420.C1
Gene No.	117112	Strand	-
Start	1	End	725
Name	OJ000313_28.0420.C1.o1.tm	Method	TBLASTX:Maize
Start	107	End	638
GI	none	Score	325
Exons	107..637, 111..509, 549..638		
Seq. No.	55940	Seq. ID	OJ000313_28.0420.C1
Gene No.	117112	Strand	-
Start	1	End	725
Name	OJ000313_28.0420.C1.o1.tw	Method	TBLASTX:Wheat
Start	203	End	655
GI	none	Score	135
Exons	203..490, 212..490, 530..655, 549..650		
Seq. No.	55941	Seq. ID	OJ000313_28.0420.C2
Gene No.	117113	Strand	+
Start	1	End	6040
Name	OJ000313_28.0420.C2.o2.np	Method	AAT/NAP
Start	1	End	6040
GI	6721516	Score	596
Exons	1..62, 1803..2047, 2458..2665, 2733..2770, 5690..5759, 5840..6040		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		
Seq. No.	55941	Seq. ID	OJ000313_28.0420.C2
Gene No.	117113	Strand	+
Start	1	End	6040
Name	OJ000313_28.0420.C2.o1.ts	Method	TBLASTX:Soybean
Start	703	End	1581
GI	none	Score	83
Exons	703..753, 829..972, 1063..1395, 1459..1581		
Seq. No.	55941	Seq. ID	OJ000313_28.0420.C2
Gene No.	117113	Strand	+
Start	1	End	6040
Name	OJ000313_28.0420.C2.o1.tw	Method	TBLASTX:Wheat
Start	1159	End	1548
GI	none	Score	89
Exons	1159..1401, 1414..1548		
Seq. No.	55942	Seq. ID	OJ000313_28.0420.C3
Gene No.	117114	Strand	+
Start	1406	End	2039
Name	OJ000313_28.0420.C3.o2.np	Method	AAT/NAP
Start	1406	End	2039
GI	5902407	Score	387
Exons	1406..2039		
GI Descrip.	(AC008148) Similar to asparaginyl-tRNA synthetases [Arabidopsis thaliana]		

Seq. No.	55942	Seq. ID	OJ000313_28.0420.C3
Gene No.	117115	Strand	-
Start	1742	End	1903
Name	OJ000313_28.0420.C3.ol.tm	Method	TBLASTX:Maize
Start	1487	End	1903
GI	none	Score	192
Exons	1487..1618, 1505..1624, 1589..1789, 1591..1755, 1739..1843, 1817..1891, 1826..1903		

Seq. No.	55942	Seq. ID	OJ000313_28.0420.C3
Gene No.	117115	Strand	-
Start	1742	End	1903
Name	OJ000313_28.0420.C3.ol.tc	Method	TBLASTX:Cress
Start	1529	End	1891
GI	none	Score	235
Exons	1529..1783, 1570..1746, 1742..1891		

Seq. No.	55942	Seq. ID	OJ000313_28.0420.C3
Gene No.	117115	Strand	-
Start	1742	End	1903
Name	OJ000313_28.0420.C3.ol.ts	Method	TBLASTX:Soybean
Start	1529	End	1891
GI	none	Score	406
Exons	1529..1891, 1570..1755		

Seq. No.	55942	Seq. ID	OJ000313_28.0420.C3
Gene No.	117115	Strand	-
Start	1742	End	1903
Name	OJ000313_28.0420.C3.ol.gp	Method	AAT/GAP
Start	1742	End	1903
GI	20754_1.R1084	Score	254
Exons	1742..1903		
GI Descrip.	'5902407/gb AAD55509.1 AC008148_19 6.0e-74 (AC008148) Similar to asparaginyl-tRNA synthetases [Arabidopsis thaliana]'		

Seq. No.	55943	Seq. ID	OJ000313_28.0420.C4
Gene No.	117116	Strand	+
Start	1	End	734
Name	OJ000313_28.0420.C4.ol.np	Method	AAT/NAP
Start	1	End	734
GI	554565	Score	241
Exons	1..122, 267..315, 622..734		
GI Descrip.	(M24889) glutathione S-transferase [synthetic construct]		

Seq. No.	55943	Seq. ID	OJ000313_28.0420.C4
Gene No.	117116	Strand	+
Start	1	End	734
Name	OJ000313_28.0420.C4.ol.tm	Method	TBLASTX:Maize
Start	2	End	680
GI	none	Score	135
Exons	2..121, 3..122, 267..314, 620..679, 621..680		

Seq. No.	55943	Seq. ID	OJ000313_28.0420.C4
Gene No.	117116	Strand	+
Start	1	End	734
Name	OJ000313_28.0420.C4.ol.gs	Method	GENSCAN
Start	3	End	703

GI	none	Score	.76
Exons	3..122, 267..315, 622..703		
Seq. No.	55944	Seq. ID	OJ000313_28.0420.C5
Gene No.	117117	Strand	+
Start	1	End	2450
Name	OJ000313_28.0420.C5.o1.np	Method	AAT/NAP
Start	1	End	2200
GI	4926870	Score	506
Exons	1..31, 1115..2200		
GI Descrip.	(AC007509) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	55944	Seq. ID	OJ000313_28.0420.C5
Gene No.	117117	Strand	+
Start	1	End	2450
Name	OJ000313_28.0420.C5.o1.gs	Method	GENSCAN
Start	270	End	2450
GI	none	Score	.74
Exons	270..399, 966..2450		

Seq. No.	55944	Seq. ID	OJ000313_28.0420.C5
Gene No.	117117	Strand	+
Start	1	End	2450
Name	OJ000313_28.0420.C5.o1.tm	Method	TBLASTX:Maize
Start	1109	End	1407
GI	none	Score	252
Exons	1109..1402, 1111..1407		

Seq. No.	55944	Seq. ID	OJ000313_28.0420.C5
Gene No.	117117	Strand	+
Start	1	End	2450
Name	OJ000313_28.0420.C5.o1.tw	Method	TBLASTX:Wheat
Start	1160	End	1435
GI	none	Score	282
Exons	1160..1435, 1222..1398		

Seq. No.	55944	Seq. ID	OJ000313_28.0420.C5
Gene No.	117117	Strand	+
Start	1	End	2450
Name	OJ000313_28.0420.C5.o1.ts	Method	TBLASTX:Soybean
Start	1190	End	1576
GI	none	Score	177
Exons	1190..1501, 1222..1386, 1478..1576		

Seq. No.	55944	Seq. ID	OJ000313_28.0420.C5
Gene No.	117117	Strand	+
Start	1	End	2450
Name	OJ000313_28.0420.C5.o2.tm	Method	TBLASTX:Maize
Start	1415	End	1675
GI	none	Score	67
Exons	1415..1483, 1432..1482, 1535..1675, 1540..1626		

Seq. No.	55945	Seq. ID	OJ000313_28.0420.C6
Gene No.	117118	Strand	+
Start	411	End	515
Name	OJ000313_28.0420.C6.o1.gs	Method	GENSCAN

Start 411
GI none
Exons 411..515

End 515
Score .79

Seq. No. 55946
Gene No. 117119
Start 1
Name OJ000313_28.0420.C11.o1.np
Start 1
GI 7473095
Exons 1..125, 682..713
GI Descrip. lipolic acid synthase - Deinococcus radiodurans (strain R1)
gi|6458473|gb|AAF10341.1|AE001931_12 (AE001931) lipolic acid
synthase [Deinococcus radiodurans]

Seq. ID OJ000313_28.0420.C11
Strand -
End 713
Method AAT/NAP
End 713
Score 97

Seq. No. 55947
Gene No. 117120
Start 5242
Name OJ000313_28.0420.C14.o3.gs
Start 5242
GI none
Exons 5242..5398, 6762..7331, 7409..7522, 7592..7761

Seq. ID OJ000313_28.0420.C14
Strand +
End 7761
Method GENSCAN
End 7761
Score .82

Seq. No. 55947
Gene No. 117121
Start 2188
Name OJ000313_28.0420.C14.o2.gs
Start 2188
GI none
Exons 2188..3246

Seq. ID OJ000313_28.0420.C14
Strand -
End 3246
Method GENSCAN
End 3246
Score .55

Seq. No. 55948
Gene No. 117122
Start 1247
Name OJ000313_28.0420.C16.o1.gs
Start 1247
GI none
Exons 1247..1326, 2327..2469, 2708..2904

Seq. ID OJ000313_28.0420.C16
Strand +
End 2904
Method GENSCAN
End 2904
Score .62

Seq. No. 55948
Gene No. 117123
Start 4126
Name OJ000313_28.0420.C16.o2.gs
Start 4126
GI none
Exons 4126..4248, 4881..4965

Seq. ID OJ000313_28.0420.C16
Strand -
End 5021
Method GENSCAN
End 4965
Score .49

Seq. No. 55948
Gene No. 117123
Start 4126
Name OJ000313_28.0420.C16.o1.np
Start 4203
GI 4680179
Exons 4203..4904, 4984..5021
GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. ID OJ000313_28.0420.C16
Strand -
End 5021
Method AAT/NAP
End 5021
Score 612

Seq. No. 55948
Seq. ID OJ000313_28.0420.C16

Gene No.	117123	Strand	-
Start	4126	End	5021
Name	OJ000313_28.0420.C16.o1.tw	Method	TBLASTX:Wheat
Start	4225	End	4716
GI	none	Score	40
Exons	4225..4344, 4313..4342, 4340..4552, 4344..4556, 4362..4547, 4548..4715, 4555..4668, 4555..4716, 4562..4714		

Seq. No.	55948	Seq. ID	OJ000313_28.0420.C16
Gene No.	117123	Strand	-
Start	4126	End	5021
Name	OJ000313_28.0420.C16.o1.tm	Method	TBLASTX:Maize
Start	4424	End	4845
GI	none	Score	77
Exons	4424..4552, 4428..4550, 4548..4829, 4561..4623, 4714..4845		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117124	Strand	+
Start	296	End	6141
Name	OJ000313_28.0420.C17.o1.gs	Method	GENSCAN
Start	296	End	6141
GI	none	Score	.55
Exons	296..438, 457..1181, 1320..1350, 1407..1520, 1683..1867, 1951..2108, 2116..2352, 2416..2653, 3011..3104, 3138..3341, 3625..3715, 3917..4035, 4076..5014, 5027..5663, 5864..6141		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117124	Strand	+
Start	296	End	6141
Name	OJ000313_28.0420.C17.o1.np	Method	AAT/NAP
Start	516	End	6138
GI	4378066	Score	2637
Exons	516..964, 1329..6138		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117125	Strand	+
Start	7243	End	13779
Name	OJ000313_28.0420.C17.o2.np	Method	AAT/NAP
Start	7243	End	13779
GI	5852180	Score	548
Exons	7243..7301, 8282..8403, 8455..8882, 13761..13779		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117126	Strand	-
Start	6671	End	7531
Name	OJ000313_28.0420.C17.o2.gs	Method	GENSCAN
Start	6671	End	7353
GI	none	Score	.56
Exons	6671..6708, 7278..7353		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117126	Strand	-
Start	6671	End	7531

Name	OJ000313_28.0420.C17.o1.gp	Method	AAT/GAP
Start	7150	End	7531
GI	uC-osflcyp033a04b1	Score	671
Exons	7150..7531		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o6.tm	Method	TBLASTX:Maize
Start	1356	End	1634
GI	none	Score	205
Exons	1356..1634, 1496..1633		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o8.tw	Method	TBLASTX:Wheat
Start	1398	End	1721
GI	none	Score	186
Exons	1398..1721		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o2.tw	Method	TBLASTX:Wheat
Start	3096	End	3551
GI	none	Score	452
Exons	3096..3551, 3146..3550		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o1.tm	Method	TBLASTX:Maize
Start	3224	End	3560
GI	none	Score	385
Exons	3224..3484, 3225..3560, 3267..3515, 3358..3522		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o3.tm	Method	TBLASTX:Maize
Start	3567	End	3951
GI	none	Score	354
Exons	3567..3938, 3568..3951		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o3.tw	Method	TBLASTX:Wheat
Start	3624	End	4038
GI	none	Score	405
Exons	3624..3938, 3625..4038, 3727..3942		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-

Start	7961	End	15265
Name	OJ000313_28.0420.C17.o1.ts	Method	TBLASTX:Soybean
Start	3670	End	4038
GI	none	Score	229
Exons	3670..4038, 3720..3863		
Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o3.ts	Method	TBLASTX:Soybean
Start	4277	End	4641
GI	none	Score	207
Exons	4277..4636, 4417..4641		
Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o4.tw	Method	TBLASTX:Wheat
Start	4279	End	4711
GI	none	Score	300
Exons	4279..4392, 4280..4711, 4420..4704		
Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o5.tm	Method	TBLASTX:Maize
Start	4910	End	5179
GI	none	Score	210
Exons	4910..5176, 4957..5169, 5012..5179		
Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o2.tm	Method	TBLASTX:Maize
Start	5180	End	5542
GI	none	Score	378
Exons	5180..5542, 5272..5490, 5420..5542		
Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o2.ts	Method	TBLASTX:Soybean
Start	5198	End	5557
GI	none	Score	95
Exons	5198..5326, 5212..5325, 5332..5541, 5333..5557		
Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o5.tw	Method	TBLASTX:Wheat
Start	5264	End	5644
GI	none	Score	141
Exons	5264..5458, 5287..5409, 5450..5644		
Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265

Name	OJ000313_28.0420.C17.o3.gs	Method	GENSCAN
Start	7961	End	15118
GI	none	Score	.46
Exons	7961..8046, 8341..8410, 8608..8808, 10074..10316, 10628..10765, 10814..10957, 11018..11449, 11553..12008, 12043..12615, 13444..13642, 14420..14529, 15076..15118		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o3.np	Method	AAT/NAP
Start	11072	End	12912
GI	6907087	Score	418
Exons	11072..11131, 12199..12912		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o4.np	Method	AAT/NAP
Start	12195	End	15265
GI	6598399	Score	848
Exons	12195..12235, 13401..15265		
GI Descrip.	(AC003952) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o7.tw	Method	TBLASTX:Wheat
Start	13207	End	13486
GI	none	Score	81
Exons	13207..13485, 13208..13486		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o6.tw	Method	TBLASTX:Wheat
Start	13712	End	14008
GI	none	Score	226
Exons	13712..14008		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o9.tw	Method	TBLASTX:Wheat
Start	14444	End	14647
GI	none	Score	177
Exons	14444..14647		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.o4.tm	Method	TBLASTX:Maize
Start	14597	End	14969

GI	none	Score	115
Exons	14597..14968, 14601..14819, 14663..14932, 14847..14969		

Seq. No.	55949	Seq. ID	OJ000313_28.0420.C17
Gene No.	117127	Strand	-
Start	7961	End	15265
Name	OJ000313_28.0420.C17.ol.tw	Method	TBLASTX:Wheat
Start	14651	End	15038
GI	none	Score	169
Exons	14651..15037, 14657..15004, 14676..15038		

Seq. No.	55950	Seq. ID	OJ000313_28.0420.C18
Gene No.	117128	Strand	-
Start	576	End	1796
Name	OJ000313_28.0420.C18.ol.gs	Method	GENSCAN
Start	576	End	1783
GI	none	Score	.41
Exons	576..1367, 1550..1783		

Seq. No.	55950	Seq. ID	OJ000313_28.0420.C18
Gene No.	117128	Strand	-
Start	576	End	1796
Name	OJ000313_28.0420.C18.ol.np	Method	AAT/NAP
Start	579	End	1796
GI	6539553	Score	2044
Exons	579..1796		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1 (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	55950	Seq. ID	OJ000313_28.0420.C18
Gene No.	117128	Strand	-
Start	576	End	1796
Name	OJ000313_28.0420.C18.ol.tw	Method	TBLASTX:Wheat
Start	715	End	1191
GI	none	Score	353
Exons	715..1101, 753..1100, 1116..1190, 1118..1189, 1120..1191		

Seq. No.	55950	Seq. ID	OJ000313_28.0420.C18
Gene No.	117128	Strand	-
Start	576	End	1796
Name	OJ000313_28.0420.C18.o2.ts	Method	TBLASTX:Soybean
Start	843	End	1184
GI	none	Score	83
Exons	843..1052, 922..1047, 1071..1184, 1078..1158		

Seq. No.	55950	Seq. ID	OJ000313_28.0420.C18
Gene No.	117128	Strand	-
Start	576	End	1796
Name	OJ000313_28.0420.C18.ol.tm	Method	TBLASTX:Maize
Start	1047	End	1386
GI	none	Score	206
Exons	1047..1385, 1048..1386		

Seq. No.	55950	Seq. ID	OJ000313_28.0420.C18
Gene No.	117128	Strand	-

Start	576	End	1796
Name	OJ000313_28.0420.C18.o1.ts	Method	TBLASTX:Soybean
Start	1197	End	1542
GI	none	Score	124
Exons	1197..1541, 1342..1542		

Seq. No.	55950	Seq. ID	OJ000313_28.0420.C18
Gene No.	117128	Strand	-
Start	576	End	1796
Name	OJ000313_28.0420.C18.o2.tw	Method	TBLASTX:Wheat
Start	1395	End	1792
GI	none	Score	48
Exons	1395..1583, 1405..1527, 1595..1792, 1619..1792		

Seq. No.	55950	Seq. ID	OJ000313_28.0420.C18
Gene No.	117128	Strand	-
Start	576	End	1796
Name	OJ000313_28.0420.C18.o2.tm	Method	TBLASTX:Maize
Start	1407	End	1792
GI	none	Score	181
Exons	1407..1553, 1577..1792		

Seq. No.	55950	Seq. ID	OJ000313_28.0420.C18
Gene No.	117128	Strand	-
Start	576	End	1796
Name	OJ000313_28.0420.C18.o3.ts	Method	TBLASTX:Soybean
Start	1577	End	1792
GI	none	Score	74
Exons	1577..1792, 1578..1688, 1607..1792		

Seq. No.	55951	Seq. ID	OJ000313_28.0420.C19
Gene No.	117129	Strand	-
Start	1	End	4435
Name	OJ000313_28.0420.C19.o1.np	Method	AAT/NAP
Start	1	End	1946
GI	6539553	Score	3330
Exons	1..1946		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1 (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	55951	Seq. ID	OJ000313_28.0420.C19
Gene No.	117129	Strand	-
Start	1	End	4435
Name	OJ000313_28.0420.C19.o1.ts	Method	TBLASTX:Soybean
Start	3	End	260
GI	none	Score	61
Exons	3..35, 36..260, 81..251, 82..252		

Seq. No.	55951	Seq. ID	OJ000313_28.0420.C19
Gene No.	117129	Strand	-
Start	1	End	4435
Name	OJ000313_28.0420.C19.o1.tw	Method	TBLASTX:Wheat
Start	6	End	405
GI	none	Score	111
Exons	6..182, 9..194, 47..193, 156..404, 171..404, 334..405		

Seq. No.	55951	Seq. ID	OJ000313_28.0420.C19
Gene No.	117129	Strand	-
Start	1	End	4435
Name	OJ000313_28.0420.C19.o3.tm	Method	TBLASTX:Maize
Start	48	End	482
GI	none	Score	84
Exons	48..482, 73..273		

Seq. No.	55951	Seq. ID	OJ000313_28.0420.C19
Gene No.	117129	Strand	-
Start	1	End	4435
Name	OJ000313_28.0420.C19.o1.gs	Method	GENSCAN
Start	94	End	4435
GI	none	Score	.77
Exons	94..1838, 2140..2187, 2239..2375, 3835..4138, 4154..4435		

Seq. No.	55951	Seq. ID	OJ000313_28.0420.C19
Gene No.	117129	Strand	-
Start	1	End	4435
Name	OJ000313_28.0420.C19.o2.ts	Method	TBLASTX:Soybean
Start	270	End	656
GI	none	Score	88
Exons	270..518, 501..656		

Seq. No.	55951	Seq. ID	OJ000313_28.0420.C19
Gene No.	117129	Strand	-
Start	1	End	4435
Name	OJ000313_28.0420.C19.o1.tm	Method	TBLASTX:Maize
Start	683	End	1005
GI	none	Score	387
Exons	683..850, 684..998, 685..978, 751..1005		

Seq. No.	55951	Seq. ID	OJ000313_28.0420.C19
Gene No.	117129	Strand	-
Start	1	End	4435
Name	OJ000313_28.0420.C19.o2.tm	Method	TBLASTX:Maize
Start	1504	End	1817
GI	none	Score	297
Exons	1504..1809, 1506..1817		

Seq. No.	55951	Seq. ID	OJ000313_28.0420.C19
Gene No.	117129	Strand	-
Start	1	End	4435
Name	OJ000313_28.0420.C19.o2.tw	Method	TBLASTX:Wheat
Start	1565	End	1952
GI	none	Score	254
Exons	1565..1894, 1566..1952, 1567..1941		

Seq. No.	55951	Seq. ID	OJ000313_28.0420.C19
Gene No.	117129	Strand	-
Start	1	End	4435
Name	OJ000313_28.0420.C19.o3.tw	Method	TBLASTX:Wheat
Start	2946	End	3285
GI	none	Score	140
Exons	2946..3251, 2947..3213, 3099..3251, 3190..3285, 3243..3284		

Seq. No.	55951	Seq. ID	OJ000313_28.0420.C19
Gene No.	117129	Strand	-
Start	1	End	4435
Name	OJ000313_28.0420.C19.o2.np	Method	AAT/NAP
Start	2955	End	3406
GI	4522005	Score	326
Exons	2955..3406		
GI Descrip.	(AC007069) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	55952	Seq. ID	OJ000313_28.0420.C20
Gene No.	117130	Strand	-
Start	1	End	1328
Name	OJ000313_28.0420.C20.o1.np	Method	AAT/NAP
Start	1	End	1328
GI	5257279	Score	460
Exons	1..1328		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	55952	Seq. ID	OJ000313_28.0420.C20
Gene No.	117130	Strand	-
Start	1	End	1328
Name	OJ000313_28.0420.C20.o1.gs	Method	GENSCAN
Start	798	End	1148
GI	none	Score	.41
Exons	798..1148		

Seq. No.	55953	Seq. ID	OJ000313_28.0420.C21
Gene No.	117131	Strand	-
Start	872	End	1972
Name	OJ000313_28.0420.C21.o1.gs	Method	GENSCAN
Start	872	End	1972
GI	none	Score	.84
Exons	872..1038, 1144..1972		

Seq. No.	55953	Seq. ID	OJ000313_28.0420.C21
Gene No.	117131	Strand	-
Start	872	End	1972
Name	OJ000313_28.0420.C21.o1.np	Method	AAT/NAP
Start	1542	End	1938
GI	7228448	Score	153
Exons	1542..1818, 1858..1938		
GI Descrip.	(AP001366) ESTs AU068685(C30691), AU068684(C30691) correspond to a region of the predicted gene.; Similar to Genomic sequence for Arabidopsis thaliana BAC F21J9, F21J9.24. (AC000103) [Oryza sativa]		

Seq. No.	55954	Seq. ID	OJ000313_28.0420.C22
Gene No.	117132	Strand	-
Start	2493	End	2710
Name	OJ000313_28.0420.C22.o1.tm	Method	TBLASTX:Maize
Start	2493	End	2710
GI	none	Score	47
Exons	2493..2555, 2494..2562, 2495..2557, 2548..2709, 2565..2657, 2567..2710, 2567..2710		

Seq. No.	55955	Seq. ID	OJ000313_28.0420.C23
Gene No.	117133	Strand	+
Start	1	End	7840
Name	OJ000313_28.0420.C23.o1.np	Method	AAT/NAP
Start	1	End	965
GI	4680339	Score	95
Exons	1..21, 675..965		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		

Seq. No.	55955	Seq. ID	OJ000313_28.0420.C23
Gene No.	117133	Strand	+
Start	1	End	7840
Name	OJ000313_28.0420.C23.o1.gs	Method	GENSCAN
Start	115	End	927
GI	none	Score	.79
Exons	115..927		

Seq. No.	55955	Seq. ID	OJ000313_28.0420.C23
Gene No.	117133	Strand	+
Start	1	End	7840
Name	OJ000313_28.0420.C23.o2.np	Method	AAT/NAP
Start	193	End	7840
GI	1351856	Score	344
Exons	193..225, 1262..1312, 1638..1690, 1848..1989, 2943..3077, 3121..3219, 4334..4530, 4669..4824, 7778..7840		
GI Descrip.	ACONITATE HYDRATASE, CYTOPLASMIC (CITRATE HYDRO-LYASE) (ACONITASE) gi 868003 dbj BAA06108 (D29629) aconitase [Cucurbita sp.]		

Seq. No.	55955	Seq. ID	OJ000313_28.0420.C23
Gene No.	117134	Strand	-
Start	2036	End	6747
Name	OJ000313_28.0420.C23.o1.tc	Method	TBLASTX:Cress
Start	1635	End	4943
GI	none	Score	65
Exons	1635..1688, 2943..3059, 2945..3064, 3120..3200, 3120..3200, 3136..3201, 4384..4440, 4385..4435, 4440..4511, 4441..4488, 4700..4750, 4755..4907, 4757..4807, 4775..4930, 4896..4943		

Seq. No.	55955	Seq. ID	OJ000313_28.0420.C23
Gene No.	117134	Strand	-
Start	2036	End	6747
Name	OJ000313_28.0420.C23.o1.tm	Method	TBLASTX:Maize
Start	1936	End	4970
GI	none	Score	69
Exons	1936..1992, 2943..3062, 2945..3064, 3111..3200, 3114..3200, 3136..3201, 4384..4452, 4384..4440, 4440..4487, 4441..4488, 4700..4750, 4755..4907, 4757..4807, 4775..4903, 4896..4970, 4904..4945		

Seq. No.	55955	Seq. ID	OJ000313_28.0420.C23
Gene No.	117134	Strand	-
Start	2036	End	6747
Name	OJ000313_28.0420.C23.o1.ts	Method	TBLASTX:Soybean
Start	1936	End	4970
GI	none	Score	65
Exons	1936..1992, 2943..3059, 2945..3064, 3120..3200, 3136..3201,		

4384..4440, 4385..4438, 4441..4488, 4679..4696, 4699..4755,
 4700..4750, 4755..4907, 4757..4807, 4775..4945, 4848..4877,
 4896..4970

Seq. No.	55955	Seq. ID	OJ000313_28.0420.C23
Gene No.	117134	Strand	-
Start	2036	End	6747
Name	OJ000313_28.0420.C23.o2.gs	Method	GENSCAN
Start	2036	End	6747
GI	none	Score	.59
Exons	2036..2167, 2325..2512, 6675..6747		

Seq. No.	55955	Seq. ID	OJ000313_28.0420.C23
Gene No.	117134	Strand	-
Start	2036	End	6747
Name	OJ000313_28.0420.C23.o1.tw	Method	TBLASTX:Wheat
Start	4755	End	4970
GI	none	Score	181
Exons	4755..4907, 4784..4930, 4896..4970, 4904..4969		

Seq. No.	55955	Seq. ID	OJ000313_28.0420.C23
Gene No.	117134	Strand	-
Start	2036	End	6747
Name	OJ000313_28.0420.C23.o1.gp	Method	AAT/GAP
Start	5818	End	6147
GI	2311342	Score	584
Exons	5818..6147		

Seq. No.	55956	Seq. ID	OJ000313_28.0420.C24
Gene No.	117135	Strand	-
Start	529	End	641
Name	OJ000313_28.0420.C24.o1.gs	Method	GENSCAN
Start	529	End	641
GI	none	Score	.51
Exons	529..641		

Seq. No.	55957	Seq. ID	OJ000313_28.0420.C25
Gene No.	117136	Strand	+
Start	320	End	1288
Name	OJ000313_28.0420.C25.o1.gs	Method	GENSCAN
Start	320	End	1288
GI	none	Score	.68
Exons	320..419, 1013..1072, 1240..1288		

Seq. No.	55958	Seq. ID	OJ000313_28.0420.C26
Gene No.	117137	Strand	-
Start	638	End	679
Name	OJ000313_28.0420.C26.o1.gs	Method	GENSCAN
Start	638	End	679
GI	none	Score	.9
Exons	638..679		

Seq. No.	55959	Seq. ID	OJ000313_28.0420.C28
Gene No.	117138	Strand	-
Start	480	End	910
Name	OJ000313_28.0420.C28.o1.gp	Method	AAT/GAP
Start	480	End	910

GI 101781.1.R1084 Score 756
 Exons 480..910
 GI Descrip. '3135074/emb|CAA69252| 0.0e+00 (Y07955) anthocyanidin synthase [Oryza sativa]'

Seq. No. 55960 Seq. ID OJ000313_28.0420.C29
 Gene No. 117139 Strand +
 Start 430 End 1335
 Name OJ000313_28.0420.C29.ol.gs Method GENSCAN
 Start 430 End 1335
 GI none Score .93
 Exons 430..610, 723..771, 869..1335

Seq. No. 55960 Seq. ID OJ000313_28.0420.C29
 Gene No. 117139 Strand +
 Start 430 End 1335
 Name OJ000313_28.0420.C29.ol.np Method AAT/NAP
 Start 461 End 1332
 GI 4127372 Score 553
 Exons 461..610, 723..771, 869..1332
 GI Descrip. (AJ010454) glutathione transferase [Alopecurus myosuroides]

Seq. No. 55960 Seq. ID OJ000313_28.0420.C29
 Gene No. 117139 Strand +
 Start 430 End 1335
 Name OJ000313_28.0420.C29.ol.tm Method TBLASTX:Maize
 Start 461 End 1317
 GI none Score 140
 Exons 461..610, 722..769, 723..770, 855..938, 886..1131, 916..1131, 1146..1220, 1147..1224, 1233..1316, 1234..1317

Seq. No. 55960 Seq. ID OJ000313_28.0420.C29
 Gene No. 117139 Strand +
 Start 430 End 1335
 Name OJ000313_28.0420.C29.ol.ts Method TBLASTX:Soybean
 Start 509 End 1215
 GI none Score 61
 Exons 509..601, 720..770, 856..909, 952..1143, 1053..1193, 1147..1215

Seq. No. 55960 Seq. ID OJ000313_28.0420.C29
 Gene No. 117139 Strand +
 Start 430 End 1335
 Name OJ000313_28.0420.C29.ol.tw Method TBLASTX:Wheat
 Start 557 End 1317
 GI none Score 66
 Exons 557..610, 722..769, 723..770, 868..918, 916..1083, 916..1002, 1063..1131, 1146..1220, 1147..1224, 1234..1317

Seq. No. 55960 Seq. ID OJ000313_28.0420.C29
 Gene No. 117139 Strand +
 Start 430 End 1335
 Name OJ000313_28.0420.C29.ol.tc Method TBLASTX:Cress
 Start 720 End 1320
 GI none Score 57
 Exons 720..770, 868..912, 952..1131, 1147..1212, 1255..1320

Seq. No. 55961 Seq. ID OJ000313_28.0420.C30

Gene No.	117140	Strand	-
Start	1	End	1338
Name	OJ000313_28.0420.C30.o1.gp	Method	AAT/GAP
Start	1	End	1338
GI	3135073	Score	2612
Exons	1..1338		
GI Descrip.	3135074 emb CAA69252 0.0e+00 (Y07955) anthocyanidin synthase [Oryza sativa]		

Seq. No.	55961	Seq. ID	OJ000313_28.0420.C30
Gene No.	117140	Strand	-
Start	1	End	1338
Name	OJ000313_28.0420.C30.o1.gs	Method	GENSCAN
Start	159	End	1286
GI	none	Score	.99
Exons	159..1286		

Seq. No.	55961	Seq. ID	OJ000313_28.0420.C30
Gene No.	117140	Strand	-
Start	1	End	1338
Name	OJ000313_28.0420.C30.o1.np	Method	AAT/NAP
Start	162	End	1286
GI	7433187	Score	1914
Exons	162..1286		
GI Descrip.	leucoanthocyanidin dioxygenase (EC 1.14.11.-) - rice gi 3135074 emb CAA69252.1 (Y07955) anthocyanidin synthase [Oryza sativa]		

Seq. No.	55961	Seq. ID	OJ000313_28.0420.C30
Gene No.	117141	Strand	-
Start	2864	End	6686
Name	OJ000313_28.0420.C30.o1.tc	Method	TBLASTX:Cress
Start	219	End	1268
GI	none	Score	216
Exons	219..269, 291..641, 343..618, 657..1037, 1182..1268		

Seq. No.	55961	Seq. ID	OJ000313_28.0420.C30
Gene No.	117141	Strand	-
Start	2864	End	6686
Name	OJ000313_28.0420.C30.o1.tm	Method	TBLASTX:Maize
Start	240	End	644
GI	none	Score	360
Exons	240..269, 285..644, 346..621, 498..644		

Seq. No.	55961	Seq. ID	OJ000313_28.0420.C30
Gene No.	117141	Strand	-
Start	2864	End	6686
Name	OJ000313_28.0420.C30.o1.ts	Method	TBLASTX:Soybean
Start	288	End	1268
GI	none	Score	110
Exons	288..335, 318..644, 349..606, 759..1031, 1173..1268		

Seq. No.	55961	Seq. ID	OJ000313_28.0420.C30
Gene No.	117141	Strand	-
Start	2864	End	6686
Name	OJ000313_28.0420.C30.o3.tm	Method	TBLASTX:Maize
Start	954	End	1268

GI	none	Score	54
Exons	954..1037, 966..1037, 1027..1044, 1107..1268, 1108..1134, 1210..1245		
Seq. No.	55961	Seq. ID	OJ000313_28.0420.C30
Gene No.	117141	Strand	-
Start	2864	End	6686
Name	OJ000313_28.0420.C30.o2.np	Method	AAT/NAP
Start	2486	End	6686
GI	6069646	Score	397
Exons	2486..3322, 6619..6686		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	55961	Seq. ID	OJ000313_28.0420.C30
Gene No.	117141	Strand	-
Start	2864	End	6686
Name	OJ000313_28.0420.C30.o2.tm	Method	TBLASTX:Maize
Start	2578	End	3030
GI	none	Score	75
Exons	2578..2676, 2725..2937, 2767..2928, 2789..2968, 2998..3030		

Seq. No.	55961	Seq. ID	OJ000313_28.0420.C30
Gene No.	117141	Strand	-
Start	2864	End	6686
Name	OJ000313_28.0420.C30.o1.tw	Method	TBLASTX:Wheat
Start	2764	End	2932
GI	none	Score	78
Exons	2764..2931, 2798..2932		

Seq. No.	55961	Seq. ID	OJ000313_28.0420.C30
Gene No.	117141	Strand	-
Start	2864	End	6686
Name	OJ000313_28.0420.C30.o2.gs	Method	GENSCAN
Start	2864	End	6657
GI	none	Score	.47
Exons	2864..2980, 3372..3394, 3552..3722, 4457..4514, 5279..5405, 6551..6657		

Seq. No.	55962	Seq. ID	OJ000313_28.0420.C31
Gene No.	117142	Strand	-
Start	828	End	969
Name	OJ000313_28.0420.C31.o1.gs	Method	GENSCAN
Start	828	End	969
GI	none	Score	.63
Exons	828..969		

Seq. No.	55963	Seq. ID	OJ000313_28.0420.C32
Gene No.	117143	Strand	-
Start	380	End	1309
Name	OJ000313_28.0420.C32.o1.gs	Method	GENSCAN
Start	380	End	1127
GI	none	Score	.67
Exons	380..484, 774..903, 991..1127		

Seq. No.	55963	Seq. ID	OJ000313_28.0420.C32
Gene No.	117143	Strand	-
Start	380	End	1309
Name	OJ000313_28.0420.C32.o1.tc	Method	TBLASTX:Cress
Start	392	End	1257
GI	none	Score	95
Exons	392..493, 756..908, 772..909, 984..1241, 985..1257		

Seq. No.	55963	Seq. ID	OJ000313_28.0420.C32
Gene No.	117143	Strand	-
Start	380	End	1309
Name	OJ000313_28.0420.C32.o1.tm	Method	TBLASTX:Maize
Start	419	End	1244
GI	none	Score	73
Exons	419..487, 425..493, 759..905, 771..905, 772..906, 984..1244, 985..1242		

Seq. No.	55963	Seq. ID	OJ000313_28.0420.C32
Gene No.	117143	Strand	-
Start	380	End	1309
Name	OJ000313_28.0420.C32.o1.gp	Method	AAT/GAP
Start	424	End	1107
GI	98611_1.R1084	Score	540
Exons	424..484, 774..905, 992..1107		
GI Descrip.	'5670315/gb AAD46681.1 AF170909_1 1.0e-65 (AF170909) SYNC1 protein [Arabidopsis thaliana]'		

Seq. No.	55963	Seq. ID	OJ000313_28.0420.C32
Gene No.	117143	Strand	-
Start	380	End	1309
Name	OJ000313_28.0420.C32.o1.ts	Method	TBLASTX:Soybean
Start	425	End	1046
GI	none	Score	62
Exons	425..493, 427..495, 428..487, 771..905, 772..906, 984..1046, 985..1029		

Seq. No.	55963	Seq. ID	OJ000313_28.0420.C32
Gene No.	117143	Strand	-
Start	380	End	1309
Name	OJ000313_28.0420.C32.o1.np	Method	AAT/NAP
Start	426	End	1309
GI	5670315	Score	456
Exons	426..484, 774..903, 991..1309		
GI Descrip.	(AF170909) SYNC1 protein [Arabidopsis thaliana]		

Seq. No.	55963	Seq. ID	OJ000313_28.0420.C32
Gene No.	117143	Strand	-
Start	380	End	1309
Name	OJ000313_28.0420.C32.o2.ts	Method	TBLASTX:Soybean
Start	1055	End	1257
GI	none	Score	86
Exons	1055..1249, 1055..1087, 1056..1244, 1069..1257, 1156..1248		

Seq. No.	55964	Seq. ID	OJ000313_28.0420.C34
Gene No.	117144	Strand	-
Start	1	End	1050

Name	OJ000313_28.0420.C34.o1.np	Method	AAT/NAP
Start	1	End	1050
GI	1707007	Score	1079
Exons	1..1050		
GI Descrip.	(U78721) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55964	Seq. ID	OJ000313_28.0420.C34
Gene No.	117144	Strand	-
Start	1	End	1050
Name	OJ000313_28.0420.C34.o1.tc	Method	TBLASTX:Cress
Start	1	End	669
GI	none	Score	57
Exons	1..588, 80..148, 325..495, 640..669		

Seq. No.	55964	Seq. ID	OJ000313_28.0420.C34
Gene No.	117144	Strand	-
Start	1	End	1050
Name	OJ000313_28.0420.C34.o1.ts	Method	TBLASTX:Soybean
Start	1	End	501
GI	none	Score	85
Exons	1..501, 263..469		

Seq. No.	55964	Seq. ID	OJ000313_28.0420.C34
Gene No.	117144	Strand	-
Start	1	End	1050
Name	OJ000313_28.0420.C34.o1.tm	Method	TBLASTX:Maize
Start	4	End	999
GI	none	Score	66
Exons	4..807, 80..142, 326..808, 478..846, 496..684, 512..838, 715..987, 715..915, 814..999, 826..993		

Seq. No.	55964	Seq. ID	OJ000313_28.0420.C34
Gene No.	117144	Strand	-
Start	1	End	1050
Name	OJ000313_28.0420.C34.o1.gs	Method	GENSCAN
Start	127	End	972
GI	none	Score	.44
Exons	127..275, 816..972		

Seq. No.	55964	Seq. ID	OJ000313_28.0420.C34
Gene No.	117144	Strand	-
Start	1	End	1050
Name	OJ000313_28.0420.C34.o1.tw	Method	TBLASTX:Wheat
Start	374	End	999
GI	none	Score	147
Exons	374..808, 379..849, 736..999, 892..981, 926..988		

Seq. No.	55964	Seq. ID	OJ000313_28.0420.C34
Gene No.	117144	Strand	-
Start	1	End	1050
Name	OJ000313_28.0420.C34.o2.ts	Method	TBLASTX:Soybean
Start	502	End	999
GI	none	Score	74
Exons	502..879, 503..631, 722..868, 754..909, 958..999		

Seq. No.	55965	Seq. ID	OJ000313_28.0420.C35
Gene No.	117145	Strand	+

Start	1	End	948
Name	OJ000313_28.0420.C35.o1.np	Method	AAT/NAP
Start	1	End	948
GI	5257279	Score	328
Exons	1..286, 905..948		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	55965	Seq. ID	OJ000313_28.0420.C35
Gene No.	117146	Strand	-
Start	9	End	737
Name	OJ000313_28.0420.C35.o1.gs	Method	GENSCAN
Start	9	End	737
GI	none	Score	.65
Exons	9..127, 661..737		

Seq. No.	55965	Seq. ID	OJ000313_28.0420.C35
Gene No.	117146	Strand	-
Start	9	End	737
Name	OJ000313_28.0420.C35.o1.tm	Method	TBLASTX:Maize
Start	19	End	276
GI	none	Score	186
Exons	19..276		

Seq. No.	55965	Seq. ID	OJ000313_28.0420.C35
Gene No.	117146	Strand	-
Start	9	End	737
Name	OJ000313_28.0420.C35.o1.tw	Method	TBLASTX:Wheat
Start	19	End	315
GI	none	Score	218
Exons	19..315, 19..222		

Seq. No.	55965	Seq. ID	OJ000313_28.0420.C35
Gene No.	117146	Strand	-
Start	9	End	737
Name	OJ000313_28.0420.C35.o1.ts	Method	TBLASTX:Soybean
Start	46	End	296
GI	none	Score	50
Exons	46..84, 82..294, 84..296		

Seq. No.	55966	Seq. ID	OJ000313_28.0420.C36
Gene No.	117147	Strand	+
Start	1	End	747
Name	OJ000313_28.0420.C36.o1.np	Method	AAT/NAP
Start	1	End	694
GI	6997177	Score	546
Exons	1..694		
GI Descrip.	(AC023839) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	55966	Seq. ID	OJ000313_28.0420.C36
Gene No.	117147	Strand	+
Start	1	End	747
Name	OJ000313_28.0420.C36.o1.tm	Method	TBLASTX:Maize
Start	42	End	522
GI	none	Score	44
Exons	42..77, 43..81, 82..417, 91..192, 99..344, 414..455, 415..477, 457..522		

Seq. No.	55966	Seq. ID	OJ000313_28.0420.C36
Gene No.	117147	Strand	+
Start	1	End	747
Name	OJ000313_28.0420.C36.o1.tw	Method	TBLASTX:Wheat
Start	96	End	510
GI	none	Score	185
Exons	96..263, 97..273, 109..282, 283..510, 283..510		

Seq. No.	55966	Seq. ID	OJ000313_28.0420.C36
Gene No.	117147	Strand	+
Start	1	End	747
Name	OJ000313_28.0420.C36.o1.gs	Method	GENSCAN
Start	106	End	747
GI	none	Score	.64
Exons	106..747		

Seq. No.	55967	Seq. ID	OJ000313_28.0420.C37
Gene No.	117148	Strand	+
Start	835	End	1660
Name	OJ000313_28.0420.C37.o1.gs	Method	GENSCAN
Start	835	End	1660
GI	none	Score	.75
Exons	835..888, 914..1102, 1176..1294, 1531..1660		

Seq. No.	55967	Seq. ID	OJ000313_28.0420.C37
Gene No.	117149	Strand	+
Start	6229	End	6529
Name	OJ000313_28.0420.C37.o2.gp	Method	AAT/GAP
Start	6229	End	6529
GI	61605_3.R1084	Score	446
Exons	6229..6529		
GI Descrip.	'1402920/emb CAA66965 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	55967	Seq. ID	OJ000313_28.0420.C37
Gene No.	117150	Strand	-
Start	36	End	160
Name	OJ000313_28.0420.C37.o1.gp	Method	AAT/GAP
Start	36	End	160
GI	288_16.R1084	Score	207
Exons	36..160		
GI Descrip.	'1658313/emb CAA70174 4.0e-18 (Y08987) osr40g2 [Oryza sativa]'		

Seq. No.	55967	Seq. ID	OJ000313_28.0420.C37
Gene No.	117151	Strand	-
Start	10128	End	11573
Name	OJ000313_28.0420.C37.o1.tm	Method	TBLASTX:Maize
Start	10019	End	10792
GI	none	Score	186
Exons	10019..10048, 10028..10228, 10033..10230, 10090..10383, 10131..10397, 10385..10792, 10404..10790		

Seq. No.	55967	Seq. ID	OJ000313_28.0420.C37
Gene No.	117151	Strand	-
Start	10128	End	11573
Name	OJ000313_28.0420.C37.o1.np	Method	AAT/NAP

Start	10128	End	11573
GI	6630685	Score	1891
Exons	10128..11573		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	55967	Seq. ID	OJ000313_28.0420.C37
Gene No.	117151	Strand	-
Start	10128	End	11573
Name	OJ000313_28.0420.C37.o1.tc	Method	TBLASTX:Cress
Start	10146	End	10600
GI	none	Score	75
Exons	10146..10373, 10198..10365, 10400..10510, 10514..10600		

Seq. No.	55967	Seq. ID	OJ000313_28.0420.C37
Gene No.	117151	Strand	-
Start	10128	End	11573
Name	OJ000313_28.0420.C37.o2.ts	Method	TBLASTX:Soybean
Start	10155	End	10783
GI	none	Score	69
Exons	10155..10367, 10192..10359, 10385..10783, 10400..10771, 10407..10778		

Seq. No.	55967	Seq. ID	OJ000313_28.0420.C37
Gene No.	117151	Strand	-
Start	10128	End	11573
Name	OJ000313_28.0420.C37.o2.tw	Method	TBLASTX:Wheat
Start	10547	End	10978
GI	none	Score	98
Exons	10547..10804, 10817..10978		

Seq. No.	55967	Seq. ID	OJ000313_28.0420.C37
Gene No.	117151	Strand	-
Start	10128	End	11573
Name	OJ000313_28.0420.C37.o2.tm	Method	TBLASTX:Maize
Start	10916	End	11347
GI	none	Score	306
Exons	10916..11347, 10917..11339, 11047..11340		

Seq. No.	55967	Seq. ID	OJ000313_28.0420.C37
Gene No.	117151	Strand	-
Start	10128	End	11573
Name	OJ000313_28.0420.C37.o1.ts	Method	TBLASTX:Soybean
Start	11154	End	11572
GI	5509260	Score	228
Exons	11154..11438, 11154..11417, 11159..11437, 11162..11452, 11431..11571, 11440..11571, 11450..11572		
GI Descrip.	-		

Seq. No.	55967	Seq. ID	OJ000313_28.0420.C37
Gene No.	117151	Strand	-
Start	10128	End	11573
Name	OJ000313_28.0420.C37.o1.tw	Method	TBLASTX:Wheat
Start	11162	End	11550
GI	none	Score	90
Exons	11162..11338, 11168..11440, 11169..11438, 11182..11442, 11380..11439, 11381..11440, 11410..11502, 11434..11514,		

11441..11509, 11515..11541, 11521..11550

Seq. No.	55967	Seq. ID	OJ000313_28.0420.C37
Gene No.	117151	Strand	-
Start	10128	End	11573
Name	OJ000313_28.0420.C37.o3.tm	Method	TBLASTX:Maize
Start	11360	End	11568
GI	none	Score	135
Exons	11360..11437, 11440..11568		

Seq. No.	55968	Seq. ID	OJ000403_22.0419.C1
Gene No.	117152	Strand	+
Start	543	End	2017
Name	OJ000403_22.0419.C1.o1.gs	Method	GENSCAN
Start	543	End	2017
GI	none	Score	.71
Exons	543..674, 1408..1539, 1795..2017		

Seq. No.	55968	Seq. ID	OJ000403_22.0419.C1
Gene No.	117153	Strand	-
Start	902	End	5295
Name	OJ000403_22.0419.C1.o1.np	Method	AAT/NAP
Start	902	End	5295
GI	6016874	Score	1798
Exons	902..921, 2779..3025, 3475..3831, 3949..4128, 4522..4681, 5072..5295		
GI Descrip.	(AP000570) ESTs C19143(E10020), D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	55968	Seq. ID	OJ000403_22.0419.C1
Gene No.	117153	Strand	-
Start	902	End	5295
Name	OJ000403_22.0419.C1.o2.gs	Method	GENSCAN
Start	3488	End	5207
GI	none	Score	.55
Exons	3488..4128, 4522..4681, 5072..5207		

Seq. No.	55968	Seq. ID	OJ000403_22.0419.C1
Gene No.	117153	Strand	-
Start	902	End	5295
Name	OJ000403_22.0419.C1.o2.tm	Method	TBLASTX:Maize
Start	3554	End	3797
GI	none	Score	97
Exons	3554..3787, 3639..3797		

Seq. No.	55968	Seq. ID	OJ000403_22.0419.C1
Gene No.	117153	Strand	-
Start	902	End	5295
Name	OJ000403_22.0419.C1.o4.tm	Method	TBLASTX:Maize
Start	3909	End	4261
GI	none	Score	136
Exons	3909..4250, 3980..4261		

Seq. No.	55968	Seq. ID	OJ000403_22.0419.C1
Gene No.	117153	Strand	-
Start	902	End	5295

Name	OJ000403_22.0419.C1.o3.tm	Method	TBLASTX:Maize
Start	4466	End	4780
GI	none	Score	106
Exons	4466..4693, 4467..4685, 4706..4780		

Seq. No.	55968	Seq. ID	OJ000403_22.0419.C1
Gene No.	117153	Strand	-
Start	902	End	5295
Name	OJ000403_22.0419.C1.o1.gp	Method	AAT/GAP
Start	4471	End	4979
GI	uC-osflcyp110c07b1	Score	958
Exons	4471..4979		
GI Descrip.	'4680178/gb AF111709.1 AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	55968	Seq. ID	OJ000403_22.0419.C1
Gene No.	117153	Strand	-
Start	902	End	5295
Name	OJ000403_22.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	4874	End	5248
GI	none	Score	109
Exons	4874..4912, 4907..4969, 4970..5248, 5040..5225		

Seq. No.	55969	Seq. ID	OJ000403_22.0419.C2
Gene No.	117154	Strand	+
Start	1180	End	2459
Name	OJ000403_22.0419.C2.o2.gs	Method	GENSCAN
Start	1180	End	2225
GI	none	Score	.65
Exons	1180..1281, 1404..1610, 1704..2225		

Seq. No.	55969	Seq. ID	OJ000403_22.0419.C2
Gene No.	117154	Strand	+
Start	1180	End	2459
Name	OJ000403_22.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	1230	End	1442
GI	none	Score	104
Exons	1230..1364, 1242..1367, 1249..1365, 1368..1442, 1376..1441		

Seq. No.	55969	Seq. ID	OJ000403_22.0419.C2
Gene No.	117154	Strand	+
Start	1180	End	2459
Name	OJ000403_22.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	1239	End	1526
GI	none	Score	163
Exons	1239..1367, 1249..1362, 1368..1526, 1373..1408, 1484..1525		

Seq. No.	55969	Seq. ID	OJ000403_22.0419.C2
Gene No.	117154	Strand	+
Start	1180	End	2459
Name	OJ000403_22.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	1239	End	2330
GI	none	Score	175
Exons	1239..1364, 1249..1362, 1368..1580, 1373..1408, 1485..1580, 2199..2330		

Seq. No.	55969	Seq. ID	OJ000403_22.0419.C2
Gene No.	117154	Strand	+
Start	1180	End	2459
Name	OJ000403_22.0419.C2.o1.np	Method	AAT/NAP
Start	1303	End	2459
GI	6562263	Score	1299
Exons	1303..2459		
GI Descrip.	(AL132980) crooked neck-like protein [Arabidopsis thaliana]		

Seq. No.	55969	Seq. ID	OJ000403_22.0419.C2
Gene No.	117154	Strand	+
Start	1180	End	2459
Name	OJ000403_22.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	1443	End	2459
GI	none	Score	99
Exons	1443..1574, 1443..1574, 1500..1577, 1701..1802, 1812..1898, 2120..2239, 2121..2459, 2124..2459		

Seq. No.	55969	Seq. ID	OJ000403_22.0419.C2
Gene No.	117154	Strand	+
Start	1180	End	2459
Name	OJ000403_22.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	1686	End	2117
GI	none	Score	113
Exons	1686..1880, 1721..1945, 1722..1940, 1725..2012, 1732..2013, 2032..2100, 2034..2117		

Seq. No.	55969	Seq. ID	OJ000403_22.0419.C2
Gene No.	117154	Strand	+
Start	1180	End	2459
Name	OJ000403_22.0419.C2.o1.gp	Method	AAT/GAP
Start	2188	End	2459
GI	20032_1.R1084	Score	468
Exons	2188..2459		
GI Descrip.	'2655888/emb CAA15638 1.0e-103 (AL009171) 62D9.a [Drosophila melanogaster]'		

Seq. No.	55970	Seq. ID	OJ000403_22.0419.C3
Gene No.	117155	Strand	+
Start	1	End	1549
Name	OJ000403_22.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	1537
GI	6562263	Score	267
Exons	1..20, 740..825, 987..1197, 1426..1537		
GI Descrip.	(AL132980) crooked neck-like protein [Arabidopsis thaliana]		

Seq. No.	55970	Seq. ID	OJ000403_22.0419.C3
Gene No.	117155	Strand	+
Start	1	End	1549
Name	OJ000403_22.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	677	End	1530
GI	none	Score	173
Exons	677..793, 677..793, 678..794, 777..896, 793..903, 793..888, 996..1127, 1004..1138, 1004..1204, 1433..1459, 1453..1530, 1453..1521		

Seq. No.	55970	Seq. ID	OJ000403_22.0419.C3
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Gene No.	117155	Strand	+
Start	1	End	1549
Name	OJ000403_22.0419.C3.o1.gs	Method	GENSCAN
Start	680	End	1549
GI	none	Score	.87
Exons	680..769, 870..897, 1005..1203, 1426..1549		

Seq. No.	55971	Seq. ID	OJ000403_22.0419.C4
Gene No.	117156	Strand	+
Start	1282	End	1429
Name	OJ000403_22.0419.C4.o1.gp	Method	AAT/GAP
Start	1282	End	1429
GI	uC-osflcyp177g01a1	Score	247
Exons	1282..1429		
GI Descrip.	'4884864/gb AAD31846.1 AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'		

Seq. No.	55971	Seq. ID	OJ000403_22.0419.C4
Gene No.	117157	Strand	-
Start	64	End	415
Name	OJ000403_22.0419.C4.o1.gs	Method	GENSCAN
Start	64	End	415
GI	none	Score	.64
Exons	64..201, 298..415		

Seq. No.	55972	Seq. ID	OJ000403_22.0419.C5
Gene No.	117158	Strand	+
Start	966	End	2067
Name	OJ000403_22.0419.C5.o1.gs	Method	GENSCAN
Start	966	End	2067
GI	none	Score	.87
Exons	966..1134, 1555..1889, 1976..2067		

Seq. No.	55972	Seq. ID	OJ000403_22.0419.C5
Gene No.	117158	Strand	+
Start	966	End	2067
Name	OJ000403_22.0419.C5.o1.np	Method	AAT/NAP
Start	1005	End	1898
GI	5902448	Score	1591
Exons	1005..1898		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	55972	Seq. ID	OJ000403_22.0419.C5
Gene No.	117159	Strand	+
Start	1988	End	2126
Name	OJ000403_22.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	1125	End	1415
GI	none	Score	215
Exons	1125..1415, 1307..1375		

Seq. No.	55972	Seq. ID	OJ000403_22.0419.C5
Gene No.	117159	Strand	+
Start	1988	End	2126
Name	OJ000403_22.0419.C5.o2.np	Method	AAT/NAP
Start	1988	End	2126
GI	5902447	Score	204
Exons	1988..2126		

GI Descrip. (AB030283) orf4 {Oryza sativa]

Seq. No.	55973	Seq. ID	OJ000403_22.0419.C6
Gene No.	117160	Strand	+
Start	1	End	1701
Name	OJ000403_22.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	510
GI	5902447	Score	723

Exons 1..510
GI Descrip. (AB030283) orf4 [Oryza sativa]

Seq. No.	55973	Seq. ID	OJ000403_22.0419.C6
Gene No.	117160	Strand	+
Start	1	End	1701
Name	OJ000403_22.0419.C6.o2.np	Method	AAT/NAP
Start	1	End	1698
GI	6691716	Score	940

Exons 1..23, 105..214, 309..481, 556..743, 819..918, 1064..1180, 1253..1698

GI Descrip. (AP000492) hypothetical protein [Oryza sativa]
gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein [Oryza sativa]

Seq. No.	55973	Seq. ID	OJ000403_22.0419.C6
Gene No.	117160	Strand	+
Start	1	End	1701
Name	OJ000403_22.0419.C6.o1.gs	Method	GENSCAN
Start	71	End	1701
GI	none	Score	.93
Exons	71..481, 556..743, 819..1008, 1076..1180, 1253..1701		

Seq. No.	55973	Seq. ID	OJ000403_22.0419.C6
Gene No.	117161	Strand	+
Start	7863	End	8324
Name	OJ000403_22.0419.C6.o1.gp	Method	AAT/GAP
Start	7863	End	8324
GI	uC-osflcyp177g01a1	Score	251

Exons 7863..7892, 8169..8324
GI Descrip. '4884864/gb|AAD31846.1|AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'

Seq. No.	55973	Seq. ID	OJ000403_22.0419.C6
Gene No.	117162	Strand	+
Start	9184	End	9534
Name	OJ000403_22.0419.C6.o2.gp	Method	AAT/GAP
Start	9184	End	9534
GI	none	Score	555
Exons	9184..9534		

Seq. No.	55973	Seq. ID	OJ000403_22.0419.C6
Gene No.	117163	Strand	-
Start	2017	End	8127
Name	OJ000403_22.0419.C6.o2.gs	Method	GENSCAN
Start	2017	End	8127
GI	none	Score	.93
Exons	2017..5098, 5195..7698, 7705..8127		

Seq. No.	55973	Seq. ID	OJ000403_22.0419.C6
Gene No.	117163	Strand	-
Start	2017	End	8127
Name	OJ000403_22.0419.C6.o3.np	Method	AAT/NAP
Start	2053	End	8127
GI	5922631	Score	6714
Exons	2053..4580, 5187..6110, 6237..6388, 6431..7002, 7048..7250, 7500..7744, 8003..8127		

GI Descrip: (AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ

Seq. No.	55973	Seq. ID	OJ000403_22.0419.C6
Gene No.	117164	Strand	-
Start	9141	End	10500
Name	OJ000403_22.0419.C6.o5.tw	Method	TBLASTX:Wheat
Start	2029	End	2643
GI	none	Score	80
Exons	2029..2166, 2152..2310, 2365..2643, 2381..2482, 2534..2623		

Seq. No.	55973	Seq. ID	OJ000403_22.0419.C6
Gene No.	117164	Strand	-
Start	9141	End	10500
Name	OJ000403_22.0419.C6.o4.tm	Method	TBLASTX:Maize
Start	2068	End	2301
GI	none	Score	101
Exons	2068..2169, 2069..2170, 2149..2301, 2150..2209		

Seq. No.	55973	Seq. ID	OJ000403_22.0419.C6
Gene No.	117164	Strand	-
Start	9141	End	10500
Name	OJ000403_22.0419.C6.o6.tm	Method	TBLASTX:Maize
Start	2413	End	2686
GI	none	Score	56
Exons	2413..2499, 2509..2592, 2522..2596, 2579..2686, 2587..2685		

Seq. No.	55973	Seq. ID	OJ000403_22.0419.C6
Gene No.	117164	Strand	-
Start	9141	End	10500
Name	OJ000403_22.0419.C6.o3.tw	Method	TBLASTX:Wheat
Start	2758	End	3145
GI	none	Score	106
Exons	2758..2949, 2758..3144, 2834..3145		

Seq. No.	55973	Seq. ID	OJ000403_22.0419.C6
Gene No.	117164	Strand	-
Start	9141	End	10500
Name	OJ000403_22.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	2788	End	3151
GI	none	Score	67
Exons	2788..2835, 2789..2836, 2807..3130, 2827..3150, 2840..3151		

Seq. No.	55973	Seq. ID	OJ000403_22.0419.C6
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Gene No. 117164
 Start 9141
 Name OJ000403_22.0419.C6.o9.tw
 Start 3148
 GI none
 Exons 3148..3288, 3313..3447

Strand -
 End 10500
 Method TBLASTX:Wheat
 End 3447
 Score 130

Seq. No. 55973
 Gene No. 117164
 Start 9141
 Name OJ000403_22.0419.C6.o5.tm
 Start 3379
 GI none
 Exons 3379..3633, 3518..3625

Seq. ID OJ000403_22.0419.C6
 Strand -
 End 10500
 Method TBLASTX:Maize
 End 3633
 Score 62

Seq. No. 55973
 Gene No. 117164
 Start 9141
 Name OJ000403_22.0419.C6.o4.tw
 Start 3463
 GI none
 Exons 3463..3885, 3473..3880, 3727..3882

Seq. ID OJ000403_22.0419.C6
 Strand -
 End 10500
 Method TBLASTX:Wheat
 End 3885
 Score 274

Seq. No. 55973
 Gene No. 117164
 Start 9141
 Name OJ000403_22.0419.C6.o2.ts
 Start 3506
 GI none
 Exons 3506..3886, 3508..3750, 3790..3894

Seq. ID OJ000403_22.0419.C6
 Strand -
 End 10500
 Method TBLASTX:Soybean
 End 3894
 Score 177

Seq. No. 55973
 Gene No. 117164
 Start 9141
 Name OJ000403_22.0419.C6.o8.tw
 Start 3885
 GI none
 Exons 3885..3983, 3886..4161, 3889..4170, 4094..4171

Seq. ID OJ000403_22.0419.C6
 Strand -
 End 10500
 Method TBLASTX:Wheat
 End 4171
 Score 94

Seq. No. 55973
 Gene No. 117164
 Start 9141
 Name OJ000403_22.0419.C6.o1.ts
 Start 4120
 GI none
 Exons 4120..4521, 4154..4324, 4361..4504

Seq. ID OJ000403_22.0419.C6
 Strand -
 End 10500
 Method TBLASTX:Soybean
 End 4521
 Score 46

Seq. No. 55973
 Gene No. 117164
 Start 9141
 Name OJ000403_22.0419.C6.o2.tw
 Start 4180
 GI none
 Exons 4180..4599, 4181..4555

Seq. ID OJ000403_22.0419.C6
 Strand -
 End 10500
 Method TBLASTX:Wheat
 End 4599
 Score 302

Seq. No. 55973
 Gene No. 117164

Seq. ID OJ000403_22.0419.C6
 Strand -

Start 9141
Name OJ000403_22.0419.C6.o3.tm
Start 4273
GI none
Exons 4273..4656, 4274..4552

End 10500
Method TBLASTX:Maize
End 4656
Score 166

Seq. No. 55973
Gene No. 117164
Start 9141
Name OJ000403_22.0419.C6.o2.tm
Start 4684
GI none
Exons 4684..5040, 4694..4999

Seq. ID OJ000403_22.0419.C6
Strand -
End 10500
Method TBLASTX:Maize
End 5040
Score 214

Seq. No. 55973
Gene No. 117164
Start 9141
Name OJ000403_22.0419.C6.o1.tw
Start 4714
GI none
Exons 4714..5169, 4715..5170

Seq. ID OJ000403_22.0419.C6
Strand -
End 10500
Method TBLASTX:Wheat
End 5170
Score 269

Seq. No. 55973
Gene No. 117164
Start 9141
Name OJ000403_22.0419.C6.o3.ts
Start 4765
GI none
Exons 4765..4899, 4906..5130

Seq. ID OJ000403_22.0419.C6
Strand -
End 10500
Method TBLASTX:Soybean
End 5130
Score 138

Seq. No. 55973
Gene No. 117164
Start 9141
Name OJ000403_22.0419.C6.o6.tw
Start 5390
GI none
Exons 5390..5626, 5392..5622, 5671..5847

Seq. ID OJ000403_22.0419.C6
Strand -
End 10500
Method TBLASTX:Wheat
End 5847
Score 154

Seq. No. 55973
Gene No. 117164
Start 9141
Name OJ000403_22.0419.C6.o7.tm
Start 5392
GI none
Exons 5392..5538, 5393..5539

Seq. ID OJ000403_22.0419.C6
Strand -
End 10500
Method TBLASTX:Maize
End 5539
Score 114

Seq. No. 55973
Gene No. 117164
Start 9141
Name OJ000403_22.0419.C6.o7.tw
Start 6424
GI none
Exons 6424..6825, 6557..6826

Seq. ID OJ000403_22.0419.C6
Strand -
End 10500
Method TBLASTX:Wheat
End 6826
Score 119

Seq. No. 55973
Gene No. 117164
Start 9141

Seq. ID OJ000403_22.0419.C6
Strand -
End 10500

Name	OJ000403_22.0419.C6.o3.gs	Method	GENSCAN
Start	9141	End	10500
GI	none	Score	.49
Exons	9141..9281, 10432..10500		

Seq. No.	55974	Seq. ID	OJ000403_22.0419.C7
Gene No.	117165	Strand	+
Start	817	End	8943
Name	OJ000403_22.0419.C7.o1.gs	Method	GENSCAN
Start	817	End	8832
GI	none	Score	.57
Exons	817..1507, 1631..1689, 2776..3167, 3279..4416, 4426..4728, 4805..5775, 5872..6071, 6117..6304, 6335..6526, 6538..6645, 6689..6875, 7039..8046, 8402..8832		

Seq. No.	55974	Seq. ID	OJ000403_22.0419.C7
Gene No.	117165	Strand	+
Start	817	End	8943
Name	OJ000403_22.0419.C7.o1.np	Method	AAT/NAP
Start	2824	End	8943
GI	5922631	Score	6571
Exons	2824..2948, 3207..3451, 3710..3917, 3963..4535, 4578..4730, 4857..5783, 6390..8943		

GI Descrip. (AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ

Seq. No.	55974	Seq. ID	OJ000403_22.0419.C7
Gene No.	117166	Strand	-
Start	9307	End	21923
Name	OJ000403_22.0419.C7.o7.tw	Method	TBLASTX:Wheat
Start	4140	End	4542
GI	none	Score	288
Exons	4140..4409, 4141..4542		

Seq. No.	55974	Seq. ID	OJ000403_22.0419.C7
Gene No.	117166	Strand	-
Start	9307	End	21923
Name	OJ000403_22.0419.C7.o6.tw	Method	TBLASTX:Wheat
Start	5123	End	5580
GI	none	Score	133
Exons	5123..5299, 5344..5580, 5348..5578		

Seq. No.	55974	Seq. ID	OJ000403_22.0419.C7
Gene No.	117166	Strand	-
Start	9307	End	21923
Name	OJ000403_22.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	5800	End	6256
GI	none	Score	487
Exons	5800..6255, 5801..6256		

Seq. No.	55974	Seq. ID	OJ000403_22.0419.C7
Gene No.	117166	Strand	-

Start 9307
Name OJ000403_22.0419.C7.o3.ts
Start 5840
GI none
Exons 5840..6064, 6071..6205

End 21923
Method TBLASTX:Soybean
End 6205
Score 136

Seq. No. 55974
Gene No. 117166
Start 9307
Name OJ000403_22.0419.C7.o2.tm
Start 5930
GI none
Exons 5930..6286, 5947..6276

Seq. ID OJ000403_22.0419.C7
Strand -
End 21923
Method TBLASTX:Maize
End 6286
Score 371

Seq. No. 55974
Gene No. 117166
Start 9307
Name OJ000403_22.0419.C7.o2.tw
Start 6371
GI none
Exons 6371..6790, 6415..6795

Seq. ID OJ000403_22.0419.C7
Strand -
End 21923
Method TBLASTX:Wheat
End 6795
Score 432

Seq. No. 55974
Gene No. 117166
Start 9307
Name OJ000403_22.0419.C7.o1.ts
Start 6458
GI none
Exons 6458..6835, 6466..6624, 6646..6789

Seq. ID OJ000403_22.0419.C7
Strand -
End 21923
Method TBLASTX:Soybean
End 6835
Score 281

Seq. No. 55974
Gene No. 117166
Start 9307
Name OJ000403_22.0419.C7.o3.tm
Start 6517
GI none
Exons 6517..6771, 6518..6772, 6545..6772, 6547..6774, 6764..6919, 6793..6846, 6806..6916

Seq. ID OJ000403_22.0419.C7
Strand -
End 21923
Method TBLASTX:Maize
End 6919
Score 279

Seq. No. 55974
Gene No. 117166
Start 9307
Name OJ000403_22.0419.C7.o2.ts
Start 7109
GI none
Exons 7109..7489, 7110..7205, 7245..7487

Seq. ID OJ000403_22.0419.C7
Strand -
End 21923
Method TBLASTX:Soybean
End 7489
Score 84

Seq. No. 55974
Gene No. 117166
Start 9307
Name OJ000403_22.0419.C7.o5.tw
Start 7110
GI none
Exons 7110..7520, 7115..7456

Seq. ID OJ000403_22.0419.C7
Strand -
End 21923
Method TBLASTX:Wheat
End 7520
Score 386

Seq. No. 55974
Gene No. 117166

Seq. ID OJ000403_22.0419.C7
Strand -

Start	9307	End	21923
Name	OJ000403_22.0419.C7.o5.tm	Method	TBLASTX:Maize
Start	7163	End	7433
GI	none	Score	129
Exons	7163..7333, 7164..7334, 7338..7433, 7370..7426		
Seq. No.	55974	Seq. ID	OJ000403_22.0419.C7
Gene No.	117166	Strand	-
Start	9307	End	21923
Name	OJ000403_22.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	7842	End	8207
GI	none	Score	417
Exons	7842..8063, 7844..8155, 7845..8168, 8160..8207		
Seq. No.	55974	Seq. ID	OJ000403_22.0419.C7
Gene No.	117166	Strand	-
Start	9307	End	21923
Name	OJ000403_22.0419.C7.o4.tw	Method	TBLASTX:Wheat
Start	7850	End	8239
GI	none	Score	392
Exons	7850..8161, 7851..8237, 8106..8228, 8192..8239		
Seq. No.	55974	Seq. ID	OJ000403_22.0419.C7
Gene No.	117166	Strand	-
Start	9307	End	21923
Name	OJ000403_22.0419.C7.o3.tw	Method	TBLASTX:Wheat
Start	8353	End	8967
GI	none	Score	357
Exons	8353..8811, 8508..8645, 8836..8967		
Seq. No.	55974	Seq. ID	OJ000403_22.0419.C7
Gene No.	117166	Strand	-
Start	9307	End	21923
Name	OJ000403_22.0419.C7.o4.tm	Method	TBLASTX:Maize
Start	8674	End	8928
GI	none	Score	162
Exons	8674..8847, 8787..8846, 8826..8927, 8827..8928		
Seq. No.	55974	Seq. ID	OJ000403_22.0419.C7
Gene No.	117166	Strand	-
Start	9307	End	21923
Name	OJ000403_22.0419.C7.o2.gs	Method	GENSCAN
Start	9307	End	21923
GI	none	Score	.46
Exons	9307..9758, 9833..9946, 10010..10049, 10274..10461, 10539..10897, 11119..11270, 11355..11536, 11688..11752, 13672..13819, 15745..15829, 16995..17191, 17212..17296, 18137..18249, 21896..21923		
Seq. No.	55974	Seq. ID	OJ000403_22.0419.C7
Gene No.	117166	Strand	-
Start	9307	End	21923
Name	OJ000403_22.0419.C7.o2.np	Method	AAT/NAP
Start	9310	End	12217
GI	6691716	Score	2584
Exons	9310..9758, 9833..9946, 10097..10199, 10274..10461, 10539..10714, 10791..10897, 10980..11155, 11351..12217		

GI Descrip. (AP000492) hypothetical protein [Oryza sativa]
gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein
[Oryza sativa]

Seq. No.	55974	Seq. ID	OJ000403_22.0419.C7
Gene No.	117166	Strand	-
Start	9307	End	21923
Name	OJ000403_22.0419.C7.o8.tw	Method	TBLASTX:Wheat
Start	11807	End	12097
GI	none	Score	208
Exons	11807..12097		

Seq. No.	55975	Seq. ID	OJ000403_22.0419.C8
Gene No.	117167	Strand	+
Start	280	End	2824
Name	OJ000403_22.0419.C8.o1.gs	Method	GENSCAN
Start	280	End	2485
GI	none	Score	.65
Exons	280..412, 1490..2098, 2190..2485		

Seq. No.	55975	Seq. ID	OJ000403_22.0419.C8
Gene No.	117167	Strand	+
Start	280	End	2824
Name	OJ000403_22.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	1518	End	1983
GI	none	Score	114
Exons	1518..1658, 1519..1671, 1672..1881, 1683..1823, 1809..1832, 1866..1982, 1879..1983, 1933..1983		

Seq. No.	55975	Seq. ID	OJ000403_22.0419.C8
Gene No.	117167	Strand	+
Start	280	End	2824
Name	OJ000403_22.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1984	End	2824
GI	none	Score	230
Exons	1984..2289, 1988..2182, 2142..2264, 2284..2508, 2308..2487, 2309..2500, 2358..2510, 2508..2705, 2518..2709, 2522..2722, 2523..2708, 2572..2715, 2695..2787, 2706..2822, 2707..2823, 2708..2824		

Seq. No.	55976	Seq. ID	OJ000403_22.0419.C9
Gene No.	117168	Strand	+
Start	1	End	934
Name	OJ000403_22.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	934
GI	6850858	Score	373
Exons	1..311, 511..571, 659..934		
GI Descrip.	(AL132959) putative protein [Arabidopsis thaliana]		

Seq. No.	55976	Seq. ID	OJ000403_22.0419.C9
Gene No.	117168	Strand	+
Start	1	End	934
Name	OJ000403_22.0419.C9.o1.gs	Method	GENSCAN
Start	193	End	882
GI	none	Score	.88
Exons	193..311, 511..571, 659..882		

Seq. No.	55976	Seq. ID	OJ000403_22.0419.C9
Gene No.	117168	Strand	+
Start	1	End	934
Name	OJ000403_22.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	255	End	883
GI	none	Score	69
Exons	255..314, 256..312, 511..585, 515..571, 641..883, 668..883		

Seq. No.	55976	Seq. ID	OJ000403_22.0419.C9
Gene No.	117168	Strand	+
Start	1	End	934
Name	OJ000403_22.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	505	End	883
GI	none	Score	109
Exons	505..570, 506..571, 641..883, 665..883		

Seq. No.	55976	Seq. ID	OJ000403_22.0419.C9
Gene No.	117168	Strand	+
Start	1	End	934
Name	OJ000403_22.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	509	End	883
GI	none	Score	113
Exons	509..574, 511..585, 512..571, 641..883, 665..868		

Seq. No.	55977	Seq. ID	OJ000403_22.0419.C10
Gene No.	117169	Strand	+
Start	944	End	11166
Name	OJ000403_22.0419.C10.o1.gs	Method	GENSCAN
Start	944	End	11166
GI	none	Score	.84
Exons	944..1014, 2759..2883, 4185..4267, 4296..4415, 5203..5284, 8403..8747, 9617..9894, 10390..11166		

Seq. No.	55977	Seq. ID	OJ000403_22.0419.C10
Gene No.	117169	Strand	+
Start	944	End	11166
Name	OJ000403_22.0419.C10.o1.np	Method	AAT/NAP
Start	8582	End	11163
GI	7486743	Score	1009
Exons	8582..8754, 9594..9894, 10390..11163		
GI Descrip.	hypothetical protein F9D16.260 - Arabidopsis thaliana gi 4454048 emb CAA23045.1 (AL035394) putative protein [Arabidopsis thaliana] gi 7269228 emb CAB81297.1 (AL161560) putative protein [Arabidopsis thaliana]		

Seq. No.	55977	Seq. ID	OJ000403_22.0419.C10
Gene No.	117169	Strand	+
Start	944	End	11166
Name	OJ000403_22.0419.C10.o1.gp	Method	AAT/GAP
Start	10885	End	11095
GI	2796627	Score	340
Exons	10885..11095		

Seq. No.	55977	Seq. ID	OJ000403_22.0419.C10
Gene No.	117170	Strand	-
Start	11466	End	13019
Name	OJ000403_22.0419.C10.o2.tm	Method	TBLASTX:Maize

Start	9596	End	9861
GI	none	Score	206
Exons	9596..9658, 9600..9851, 9618..9857, 9619..9861, 9691..9861		

Seq. No.	55977	Seq. ID	OJ000403_22.0419.C10
Gene No.	117170	Strand	-
Start	11466	End	13019
Name	OJ000403_22.0419.C10.o2.tc	Method	TBLASTX:Cress
Start	9606	End	10485
GI	none	Score	106
Exons	9606..9680, 9607..9687, 9691..9879, 9693..9881, 9694..9897, 10390..10485, 10392..10472		

Seq. No.	55977	Seq. ID	OJ000403_22.0419.C10
Gene No.	117170	Strand	-
Start	11466	End	13019
Name	OJ000403_22.0419.C10.o3.ts	Method	TBLASTX:Soybean
Start	9622	End	9899
GI	none	Score	284
Exons	9622..9897, 9636..9899		

Seq. No.	55977	Seq. ID	OJ000403_22.0419.C10
Gene No.	117170	Strand	-
Start	11466	End	13019
Name	OJ000403_22.0419.C10.o2.ts	Method	TBLASTX:Soybean
Start	10389	End	10716
GI	none	Score	338
Exons	10389..10709, 10390..10716		

Seq. No.	55977	Seq. ID	OJ000403_22.0419.C10
Gene No.	117170	Strand	-
Start	11466	End	13019
Name	OJ000403_22.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	10416	End	10783
GI	none	Score	54
Exons	10416..10448, 10417..10449, 10456..10782, 10457..10567, 10458..10781, 10484..10783		

Seq. No.	55977	Seq. ID	OJ000403_22.0419.C10
Gene No.	117170	Strand	-
Start	11466	End	13019
Name	OJ000403_22.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	10486	End	11151
GI	none	Score	201
Exons	10486..10518, 10519..10698, 10524..10688, 10696..10902, 10785..10889, 10891..11058, 11077..11151, 11079..11141		

Seq. No.	55977	Seq. ID	OJ000403_22.0419.C10
Gene No.	117170	Strand	-
Start	11466	End	13019
Name	OJ000403_22.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	10719	End	11159
GI	none	Score	83
Exons	10719..10871, 10720..10944, 10722..10934, 10978..11151, 10991..11155, 11022..11159		

Seq. No.	55977	Seq. ID	OJ000403_22.0419.C10
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Gene No.	117170	Strand	-
Start	11466	End	13019
Name	OJ000403_22.0419.C10.o3.tm	Method	TBLASTX:Maize
Start	10795	End	11151
GI	none	Score	136
Exons	10795..10947, 10975..11073, 11022..11060, 11067..11135, 11071..11151, 11080..11151		

Seq. No.	55977	Seq. ID	OJ000403_22.0419.C10
Gene No.	117170	Strand	-
Start	11466	End	13019
Name	OJ000403_22.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	10978	End	11150
GI	none	Score	100
Exons	10978..11058, 11074..11148, 11076..11150		

Seq. No.	55977	Seq. ID	OJ000403_22.0419.C10
Gene No.	117170	Strand	-
Start	11466	End	13019
Name	OJ000403_22.0419.C10.o2.gs	Method	GENSCAN
Start	11466	End	13019
GI	none	Score	.42
Exons	11466..11525, 11823..12065, 12877..13019		

Seq. No.	55978	Seq. ID	OJ000403_22.0419.C11
Gene No.	117171	Strand	-
Start	1	End	818
Name	OJ000403_22.0419.C11.o1.gp	Method	AAT/GAP
Start	1	End	655
GI	1036865	Score	906
Exons	1..655		

Seq. No.	55978	Seq. ID	OJ000403_22.0419.C11
Gene No.	117171	Strand	-
Start	1	End	818
Name	OJ000403_22.0419.C11.o1.gs	Method	GENSCAN
Start	445	End	818
GI	none	Score	.56
Exons	445..594, 727..818		

Seq. No.	55979	Seq. ID	OJ000403_22.0419.C12
Gene No.	117172	Strand	+
Start	341	End	2363
Name	OJ000403_22.0419.C12.o1.gs	Method	GENSCAN
Start	341	End	2363
GI	none	Score	.79
Exons	341..534, 1293..1371, 1884..2030, 2250..2363		

Seq. No.	55980	Seq. ID	OJ000403_22.0419.C15
Gene No.	117173	Strand	-
Start	315	End	2506
Name	OJ000403_22.0419.C15.o1.gs	Method	GENSCAN
Start	315	End	2506
GI	none	Score	.94
Exons	315..1795, 2329..2506		

Seq. No.	55980	Seq. ID	OJ000403_22.0419.C15
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Gene No.	117173	Strand	-
Start	315	End	2506
Name	OJ000403_22.0419.C15.o1.np	Method	AAT/NAP
Start	315	End	887
GI	6522938	Score	354
Exons	315..887		
GI Descrip.	(AL132978) putative protein [Arabidopsis thaliana] gi 6523028 emb CAB62296.1 (AL132976) putative protein [Arabidopsis thaliana]		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
Gene No.	117174	Strand	+
Start	718	End	2417
Name	OJ000403_22.0419.C18.o1.gs	Method	GENSCAN
Start	718	End	2417
GI	none	Score	.44
Exons	718..767, 1649..1722, 2221..2417		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
Gene No.	117174	Strand	+
Start	718	End	2417
Name	OJ000403_22.0419.C18.o1.np	Method	AAT/NAP
Start	1908	End	2411
GI	3914365	Score	303
Exons	1908..2002, 2048..2411		
GI Descrip.	PHOSPHOLIPASE D 2 PRECURSOR (PLD 2) (CHOLINE PHOSPHATASE 2) (PHOSPHATIDYLCHOLINE-HYDROLYZING PHOSPHOLIPASE D 2) gi 1902901 dbj BAA19466 (AB001919) phospholipase D [Oryza sativa]		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
Gene No.	117175	Strand	+
Start	3080	End	5363
Name	OJ000403_22.0419.C18.o2.gs	Method	GENSCAN
Start	3080	End	5363
GI	none	Score	.75
Exons	3080..3110, 3172..3252, 3347..3573, 3701..3937, 4503..4904, 5256..5363		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
Gene No.	117175	Strand	+
Start	3080	End	5363
Name	OJ000403_22.0419.C18.o1.gp	Method	AAT/GAP
Start	4466	End	4840
GI	63401_1.R1084	Score	699
Exons	4466..4840		
GI Descrip.	'5777612/emb AJ245900.1 OSA245900 0.0e+00 Oryza sativa chromosome 4 BAC q3037-207F1 complete genome'		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
Gene No.	117175	Strand	+
Start	3080	End	5363
Name	OJ000403_22.0419.C18.o2.np	Method	AAT/NAP
Start	4590	End	4895
GI	6691216	Score	276
Exons	4590..4895		
GI Descrip.	(AC007508) FlK23.19 [Arabidopsis thaliana]		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
Gene No.	117176	Strand	-
Start	4210	End	5817
Name	OJ000403_22.0419.C18.o3.np	Method	AAT/NAP
Start	4210	End	5817
GI	6069671	Score	87
Exons	4210..4253, 5667..5817		
GI Descrip.	(AP000616) EST.C72179(E1153) corresponds to a region of the predicted gene.; similar to Arabidopsis thaliana chromosome II BAC T4C15; hypothetical protein (AC004667) [Oryza sativa]		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
Gene No.	117177	Strand	-
Start	6859	End	11171
Name	OJ000403_22.0419.C18.o4.tm	Method	TBLASTX:Maize
Start	1912	End	2405
GI	none	Score	49
Exons	1912..1950, 1914..1952, 1956..1997, 1957..1998, 2147..2194, 2195..2314, 2196..2306, 2307..2405, 2321..2395		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
Gene No.	117177	Strand	-
Start	6859	End	11171
Name	OJ000403_22.0419.C18.o3.tm	Method	TBLASTX:Maize
Start	4722	End	4871
GI	none	Score	203
Exons	4722..4871, 4727..4870		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
Gene No.	117177	Strand	-
Start	6859	End	11171
Name	OJ000403_22.0419.C18.o4.np	Method	AAT/NAP
Start	6750	End	11171
GI	4680207	Score	783
Exons	6750..7143, 7180..8782, 10073..10890, 11122..11171		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor].		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
Gene No.	117177	Strand	-
Start	6859	End	11171
Name	OJ000403_22.0419.C18.o3.gs	Method	GENSCAN
Start	6859	End	10908
GI	none	Score	.5
Exons	6859..8277, 8623..8866, 10073..10908		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
Gene No.	117177	Strand	-
Start	6859	End	11171
Name	OJ000403_22.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	7720	End	8826
GI	none	Score	81
Exons	7720..7830, 7837..8031, 8158..8325, 8302..8553, 8321..8470, 8536..8637, 8743..8826		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
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Gene No.	117177	Strand	-
Start	6859	End	11171
Name	OJ000403_22.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	8143	End	8625
GI	none	Score	105
Exons	8143..8310, 8144..8305, 8151..8330, 8152..8328, 8320..8478, 8333..8482, 8488..8613, 8488..8625		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
Gene No.	117177	Strand	-
Start	6859	End	11171
Name	OJ000403_22.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	8339	End	8625
GI	none	Score	201
Exons	8339..8611, 8341..8625, 8428..8625		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
Gene No.	117177	Strand	-
Start	6859	End	11171
Name	OJ000403_22.0419.C18.o5.tm	Method	TBLASTX:Maize
Start	8641	End	8869
GI	none	Score	108
Exons	8641..8868, 8663..8869		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
Gene No.	117177	Strand	-
Start	6859	End	11171
Name	OJ000403_22.0419.C18.o5.np	Method	AAT/NAP
Start	10231	End	10908
GI	7328528	Score	373
Exons	10231..10908		
GI Descrip.	(AB040028) RPM1 like protein [Oryza sativa]		

Seq. No.	55981	Seq. ID	OJ000403_22.0419.C18
Gene No.	117177	Strand	-
Start	6859	End	11171
Name	OJ000403_22.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	10345	End	10878
GI	none	Score	52
Exons	10345..10449, 10346..10450, 10489..10617, 10500..10592, 10630..10878, 10642..10833, 10662..10874		

Seq. No.	55982	Seq. ID	OJ000403_22.0419.C19
Gene No.	117178	Strand	-
Start	1260	End	1530
Name	OJ000403_22.0419.C19.o1.gs	Method	GENSCAN
Start	1260	End	1530
GI	none	Score	.55
Exons	1260..1376, 1429..1530		

Seq. No.	55983	Seq. ID	OJ000403_23.0419.C1
Gene No.	117179	Strand	+
Start	1	End	1387
Name	OJ000403_23.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	1387
GI	7228457	Score	1898
Exons	1..88, 152..986, 1109..1387		

GI Descrip. (AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]

Seq. No.	55983	Seq. ID	OJ000403_23.0419.C1
Gene No.	117179	Strand	+
Start	1	End	1387
Name	OJ000403_23.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	160	End	622
GI	none	Score	589
Exons	160..615, 161..622, 161..616		

Seq. No.	55983	Seq. ID	OJ000403_23.0419.C1
Gene No.	117179	Strand	+
Start	1	End	1387
Name	OJ000403_23.0419.C1.o2.ts	Method	TBLASTX:Soybean
Start	200	End	565
GI	none	Score	117
Exons	200..424, 431..565		

Seq. No.	55983	Seq. ID	OJ000403_23.0419.C1
Gene No.	117179	Strand	+
Start	1	End	1387
Name	OJ000403_23.0419.C1.o1.gs	Method	GENSCAN
Start	215	End	1366
GI	none	Score	.74
Exons	215..1366		

Seq. No.	55983	Seq. ID	OJ000403_23.0419.C1
Gene No.	117179	Strand	+
Start	1	End	1387
Name	OJ000403_23.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	290	End	646
GI	none	Score	393
Exons	290..646, 325..636, 530..646		

Seq. No.	55983	Seq. ID	OJ000403_23.0419.C1
Gene No.	117179	Strand	+
Start	1	End	1387
Name	OJ000403_23.0419.C1.o2.tm	Method	TBLASTX:Maize
Start	673	End	1057
GI	none	Score	363
Exons	673..1038, 674..1057		

Seq. No.	55983	Seq. ID	OJ000403_23.0419.C1
Gene No.	117179	Strand	+
Start	1	End	1387
Name	OJ000403_23.0419.C1.o2.tw	Method	TBLASTX:Wheat
Start	730	End	1125
GI	none	Score	459
Exons	730..1125, 731..1120, 769..1122		

Seq. No.	55983	Seq. ID	OJ000403_23.0419.C1
Gene No.	117179	Strand	+
Start	1	End	1387
Name	OJ000403_23.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	809	End	1114

GI	none	Score	235
Exons	809..1114, 826..969		
Seq. No.	55984	Seq. ID	OJ000403_23.0419.C2
Gene No.	117180	Strand	+
Start	1	End	1980
Name	OJ000403_23.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	1977
GI	7228457	Score	3096
Exons	1..402, 469..1977		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	55984	Seq. ID	OJ000403_23.0419.C2
Gene No.	117180	Strand	+
Start	1	End	1980
Name	OJ000403_23.0419.C2.o1.gs	Method	GENSCAN
Start	139	End	1980
GI	none	Score	.72
Exons	139..435, 469..567, 817..1980		
Seq. No.	55984	Seq. ID	OJ000403_23.0419.C2
Gene No.	117181	Strand	+
Start	4602	End	6456
Name	OJ000403_23.0419.C2.o3.gs	Method	GENSCAN
Start	4602	End	6235
GI	none	Score	.68
Exons	4602..4705, 4806..4923, 5034..5101, 5546..5588, 6028..6235		
Seq. No.	55984	Seq. ID	OJ000403_23.0419.C2
Gene No.	117181	Strand	+
Start	4602	End	6456
Name	OJ000403_23.0419.C2.o3.np	Method	AAT/NAP
Start	5443	End	6456
GI	5042454	Score	324
Exons	5443..5588, 6124..6235, 6289..6456		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	55984	Seq. ID	OJ000403_23.0419.C2
Gene No.	117182	Strand	-
Start	1	End	4321
Name	OJ000403_23.0419.C2.o2.np	Method	AAT/NAP
Start	1	End	4321
GI	6907089	Score	2220
Exons	1..36, 2710..2959, 3060..4321		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	55984	Seq. ID	OJ000403_23.0419.C2
Gene No.	117182	Strand	-
Start	1	End	4321
Name	OJ000403_23.0419.C2.o2.tw	Method	TBLASTX:Wheat
Start	4	End	381
GI	none	Score	196
Exons	4..171, 12..191, 232..381, 243..380		
Seq. No.	55984	Seq. ID	OJ000403_23.0419.C2

Gene No.	117182	Strand	-
Start	1	End	4321
Name	OJ000403_23.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	70	End	636
GI	5666795	Score	68
Exons	70..168, 244..381, 421..636		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	55984	Seq. ID	OJ000403_23.0419.C2
Gene No.	117182	Strand	-
Start	1	End	4321
Name	OJ000403_23.0419.C2.o4.tw	Method	TBLASTX:Wheat
Start	384	End	696
GI	none	Score	199
Exons	384..560, 421..696		

Seq. No.	55984	Seq. ID	OJ000403_23.0419.C2
Gene No.	117182	Strand	-
Start	1	End	4321
Name	OJ000403_23.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	847	End	1170
GI	none	Score	372
Exons	847..1170, 876..1157		

Seq. No.	55984	Seq. ID	OJ000403_23.0419.C2
Gene No.	117182	Strand	-
Start	1	End	4321
Name	OJ000403_23.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	984	End	1385
GI	none	Score	380
Exons	984..1385, 985..1365		

Seq. No.	55984	Seq. ID	OJ000403_23.0419.C2
Gene No.	117182	Strand	-
Start	1	End	4321
Name	OJ000403_23.0419.C2.o3.tw	Method	TBLASTX:Wheat
Start	1390	End	1968
GI	none	Score	244
Exons	1390..1668, 1392..1649, 1414..1782, 1842..1964, 1843..1968		

Seq. No.	55984	Seq. ID	OJ000403_23.0419.C2
Gene No.	117182	Strand	-
Start	1	End	4321
Name	OJ000403_23.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	1836	End	1980
GI	none	Score	183
Exons	1836..1976, 1837..1980		

Seq. No.	55984	Seq. ID	OJ000403_23.0419.C2
Gene No.	117182	Strand	-
Start	1	End	4321
Name	OJ000403_23.0419.C2.o2.gs	Method	GENSCAN
Start	2603	End	4321
GI	none	Score	.84
Exons	2603..2717, 2918..3010, 3060..4321		

Seq. No.	55985	Seq. ID	OJ000403_23.0419.C3
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Gene No.	117183	Strand	+
Start	1402	End	4318
Name	OJ000403_23.0419.C3.ol.gs	Method	GENSCAN
Start	1402	End	4318
GI	none	Score	.76
Exons	1402..1665, 3336..4010, 4012..4318		

Seq. No.	55985	Seq. ID	OJ000403_23.0419.C3
Gene No.	117183	Strand	+
Start	1402	End	4318
Name	OJ000403_23.0419.C3.ol.np	Method	AAT/NAP
Start	1517	End	4315
GI	5777632	Score	1862
Exons	1517..1665, 3336..4315		
GI Descrip.	(AJ245900) CAA303720.1 protein [Oryza sativa]		

Seq. No.	55985	Seq. ID	OJ000403_23.0419.C3
Gene No.	117183	Strand	+
Start	1402	End	4318
Name	OJ000403_23.0419.C3.ol.tc	Method	TBLASTX:Cress
Start	1583	End	3960
GI	none	Score	68
Exons	1583..1666, 3349..3552, 3351..3557, 3580..3960		

Seq. No.	55985	Seq. ID	OJ000403_23.0419.C3
Gene No.	117183	Strand	+
Start	1402	End	4318
Name	OJ000403_23.0419.C3.ol.tm	Method	TBLASTX:Maize
Start	3349	End	4096
GI	none	Score	160
Exons	3349..3552, 3378..3551, 3634..4014, 3658..3750, 3873..4010, 4016..4096		

Seq. No.	55985	Seq. ID	OJ000403_23.0419.C3
Gene No.	117183	Strand	+
Start	1402	End	4318
Name	OJ000403_23.0419.C3.ol.ts	Method	TBLASTX:Soybean
Start	3349	End	4084
GI	none	Score	189
Exons	3349..3573, 3631..3960, 4013..4084		

Seq. No.	55985	Seq. ID	OJ000403_23.0419.C3
Gene No.	117183	Strand	+
Start	1402	End	4318
Name	OJ000403_23.0419.C3.ol.tw	Method	TBLASTX:Wheat
Start	3349	End	3557
GI	none	Score	196
Exons	3349..3552, 3366..3557		

Seq. No.	55986	Seq. ID	OJ000403_23.0419.C4
Gene No.	117184	Strand	+
Start	483	End	644
Name	OJ000403_23.0419.C4.ol.gs	Method	GENSCAN
Start	483	End	644
GI	none	Score	.89
Exons	483..549, 577..644		

Seq. No.	55986	Seq. ID	OJ000403_23.0419.C4
Gene No.	117185	Strand	-
Start	1636	End	3929
Name	OJ000403_23.0419.C4.o2.gs	Method	GENSCAN
Start	1636	End	3929
GI	none	Score	.42
Exons	1636..1701, 1866..2000, 3281..3495, 3800..3929		

Seq. No.	55987	Seq. ID	OJ000403_23.0419.C5
Gene No.	117186	Strand	+
Start	1	End	2182
Name	OJ000403_23.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	2182
GI	5777631	Score	1180
Exons	1..68, 576..663, 1509..1641, 1742..2182		
GI Descrip.	(AJ245900) CAA303719.1 protein [Oryza sativa]		

Seq. No.	55987	Seq. ID	OJ000403_23.0419.C5
Gene No.	117186	Strand	+
Start	1	End	2182
Name	OJ000403_23.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	2	End	2119
GI	none	Score	99
Exons	2..67, 3..68, 9..68, 539..664, 540..665, 556..666, 564..665, 1510..1662, 1511..1642, 1733..1843, 1740..1835, 1785..2060, 1826..2062, 1826..2065, 2024..2119, 2055..2096		

Seq. No.	55987	Seq. ID	OJ000403_23.0419.C5
Gene No.	117186	Strand	+
Start	1	End	2182
Name	OJ000403_23.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	2	End	2093
GI	none	Score	104
Exons	2..67, 3..68, 540..659, 548..658, 1507..1662, 1508..1642, 1525..1662, 1733..1789, 1740..1847, 1826..2011, 1827..2015, 2009..2083, 2010..2093		

Seq. No.	55987	Seq. ID	OJ000403_23.0419.C5
Gene No.	117186	Strand	+
Start	1	End	2182
Name	OJ000403_23.0419.C5.o1.gs	Method	GENSCAN
Start	576	End	1892
GI	none	Score	.73
Exons	576..663, 1509..1641, 1742..1892		

Seq. No.	55987	Seq. ID	OJ000403_23.0419.C5
Gene No.	117186	Strand	+
Start	1	End	2182
Name	OJ000403_23.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	1507	End	1960
GI	none	Score	146
Exons	1507..1653, 1508..1642, 1519..1650, 1739..1795, 1740..1799, 1826..1960, 1827..1958		

Seq. No.	55987	Seq. ID	OJ000403_23.0419.C5
Gene No.	117186	Strand	+
Start	1	End	2182

Name	OJ000403_23.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	1555	End	1921
GI	none	Score	107
Exons	1555..1662, 1559..1642, 1561..1662, 1733..1867, 1740..1868, 1741..1869, 1868..1921, 1869..1919		

Seq. No.	55987	Seq. ID	OJ000403_23.0419.C5
Gene No.	117186	Strand	+
Start	1	End	2182
Name	OJ000403_23.0419.C5.o2.tw	Method	TBLASTX:Wheat
Start	1923	End	2116
GI	none	Score	183
Exons	1923..2060, 1923..2060, 1925..2062, 1925..2062, 2056..2076, 2093..2116		

Seq. No.	55987	Seq. ID	OJ000403_23.0419.C5
Gene No.	117186	Strand	+
Start	1	End	2182
Name	OJ000403_23.0419.C5.o1.gp	Method	AAT/GAP
Start	1928	End	2182
GI	13954_1.R1084	Score	478
Exons	1928..2182		
GI Descrip.	'5777630/emb CAB53491.1 8.0e-15 (AJ245900) CAA303718.1 protein [Oryza sativa]'		

Seq. No.	55988	Seq. ID	OJ000403_23.0419.C6
Gene No.	117187	Strand	+
Start	211	End	1288
Name	OJ000403_23.0419.C6.o1.gs	Method	GENSCAN
Start	211	End	1288
GI	none	Score	.61
Exons	211..219, 1160..1288		

Seq. No.	55989	Seq. ID	OJ000403_23.0419.C7
Gene No.	117188	Strand	+
Start	1	End	724
Name	OJ000403_23.0419.C7.o1.gp	Method	AAT/GAP
Start	1	End	241
GI	2311623	Score	216
Exons	1..27, 95..241		
GI Descrip.	5777630/emb CAB53491.1 8.0e-15 (AJ245900) CAA303718.1 protein [Oryza sativa]		

Seq. No.	55989	Seq. ID	OJ000403_23.0419.C7
Gene No.	117188	Strand	+
Start	1	End	724
Name	OJ000403_23.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	548
GI	5777630	Score	923
Exons	1..548		
GI Descrip.	(AJ245900) CAA303718.1 protein [Oryza sativa]		

Seq. No.	55989	Seq. ID	OJ000403_23.0419.C7
Gene No.	117188	Strand	+
Start	1	End	724
Name	OJ000403_23.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	51	End	527

GI	none	Score	50
Exons	51..107, 108..191, 122..178, 200..487, 201..527		
Seq. No.	55989	Seq. ID	OJ000403_23.0419.C7
Gene No.	117188	Strand	+
Start	1	End	724
Name	OJ000403_23.0419.C7.o1.gs	Method	GENSCAN
Start	114	End	724
GI	none	Score	.65
Exons	114..547, 718..724		
Seq. No.	55989	Seq. ID	OJ000403_23.0419.C7
Gene No.	117188	Strand	+
Start	1	End	724
Name	OJ000403_23.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	143	End	530
GI	none	Score	79
Exons	143..196, 144..197, 201..530, 203..490, 453..503		
Seq. No.	55989	Seq. ID	OJ000403_23.0419.C7
Gene No.	117188	Strand	+
Start	1	End	724
Name	OJ000403_23.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	222	End	628
GI	none	Score	441
Exons	222..551, 227..628, 421..552		
Seq. No.	55990	Seq. ID	OJ000403_23.0419.C8
Gene No.	117189	Strand	-
Start	1259	End	1644
Name	OJ000403_23.0419.C8.o1.gp	Method	AAT/GAP
Start	1259	End	1644
GI	790_1.R1084	Score	768
Exons	1259..1644		
GI Descrip.	'2425101 0.0e+00 (AF019743) cationic peroxidase [Oryza sativa]'		
Seq. No.	55990	Seq. ID	OJ000403_23.0419.C8
Gene No.	117190	Strand	-
Start	1565	End	1644
Name	OJ000403_23.0419.C8.o1.np	Method	AAT/NAP
Start	1565	End	1644
GI	5777629	Score	120
Exons	1565..1644		
GI Descrip.	(AJ245900) CAA303717.1 protein [Oryza sativa]		
Seq. No.	55991	Seq. ID	OJ000403_23.0419.C9
Gene No.	117191	Strand	-
Start	1	End	438
Name	OJ000403_23.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	374
GI	5777629	Score	426
Exons	1..24, 112..374		
GI Descrip.	(AJ245900) CAA303717.1 protein [Oryza sativa]		
Seq. No.	55991	Seq. ID	OJ000403_23.0419.C9
Gene No.	117191	Strand	-
Start	1	End	438

Name	OJ000403_23.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	102	End	339
GI	none	Score	35
Exons	102..332, 145..162, 217..339		
Seq. No.	55991	Seq. ID	OJ000403_23.0419.C9
Gene No.	117191	Strand	-
Start	1	End	438
Name	OJ000403_23.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	114	End	330
GI	none	Score	146
Exons	114..326, 139..330		
Seq. No.	55991	Seq. ID	OJ000403_23.0419.C9
Gene No.	117191	Strand	-
Start	1	End	438
Name	OJ000403_23.0419.C9.o1.gp	Method	AAT/GAP
Start	137	End	438
GI	790_1.R1084	Score	526
Exons	137..438		
GI Descrip.	'2425101 0.0e+00 (AF019743) cationic peroxidase [Oryza sativa]'		
Seq. No.	55992	Seq. ID	OJ000403_23.0419.C10
Gene No.	117192	Strand	+
Start	687	End	840
Name	OJ000403_23.0419.C10.o1.gs	Method	GENSCAN
Start	687	End	824
GI	none	Score	.44
Exons	687..824		
Seq. No.	55992	Seq. ID	OJ000403_23.0419.C10
Gene No.	117192	Strand	+
Start	687	End	840
Name	OJ000403_23.0419.C10.o1.np	Method	AAT/NAP
Start	707	End	840
GI	5777634	Score	178
Exons	707..840		
GI Descrip.	(AJ245900) CAA303722.1 protein [Oryza sativa]		
Seq. No.	55993	Seq. ID	OJ000403_23.0419.C11
Gene No.	117193	Strand	+
Start	1	End	3401
Name	OJ000403_23.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	3081
GI	5777634	Score	1242
Exons	1..41, 932..1046, 1367..1441, 1613..1797, 2354..2663, 2901..2949, 3010..3081		
GI Descrip.	(AJ245900) CAA303722.1 protein [Oryza sativa]		
Seq. No.	55993	Seq. ID	OJ000403_23.0419.C11
Gene No.	117193	Strand	+
Start	1	End	3401
Name	OJ000403_23.0419.C11.o1.gs	Method	GENSCAN
Start	621	End	3084
GI	none	Score	.79
Exons	621..643, 1367..1441, 1677..1797, 2298..2325, 2354..2663, 2901..2949, 3010..3084		

Seq. No.	55993	Seq. ID	OJ000403_23.0419.C11
Gene No.	117193	Strand	+
Start	1	End	3401
Name	OJ000403_23.0419.C11.o1.gp	Method	AAT/GAP
Start	2762	End	3401
GI	3761581	Score	768
Exons	2762..2837, 3010..3401		
GI Descrip.	5777612/emb AJ245900.1 OSA245900 0.0e+00 Oryza sativa chromosome 4 BAC q3037-207F1 complete genome		

Seq. No.	55993	Seq. ID	OJ000403_23.0419.C11
Gene No.	117194	Strand	-
Start	4058	End	4231
Name	OJ000403_23.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	2341	End	3057
GI	none	Score	158
Exons	2341..2520, 2356..2478, 2397..2522, 2576..2662, 2577..2663, 2587..2664, 2589..2663, 2781..2864, 2783..2857, 3004..3057, 3009..3056		

Seq. No.	55993	Seq. ID	OJ000403_23.0419.C11
Gene No.	117194	Strand	-
Start	4058	End	4231
Name	OJ000403_23.0419.C11.o2.gs	Method	GENSCAN
Start	4058	End	4231
GI	none	Score	.98
Exons	4058..4231		

Seq. No.	55994	Seq. ID	OJ000403_23.0419.C12
Gene No.	117195	Strand	+
Start	2774	End	6472
Name	OJ000403_23.0419.C12.o2.gs	Method	GENSCAN
Start	2774	End	6241
GI	none	Score	.7
Exons	2774..2890, 3246..3343, 3818..3948, 4035..4063, 5121..5186, 5431..5538, 5767..5832, 5939..6008, 6160..6241		

Seq. No.	55994	Seq. ID	OJ000403_23.0419.C12
Gene No.	117195	Strand	+
Start	2774	End	6472
Name	OJ000403_23.0419.C12.o1.gp	Method	AAT/GAP
Start	3260	End	6472
GI	14603_1.R1084	Score	1363
Exons	3260..3343, 3818..3948, 4035..4063, 5121..5186, 5431..5538, 5767..5832, 5939..6059, 6160..6241, 6375..6472		
GI Descrip.	'4033424/sp O48556 IPYR_MAIZE 1.0e-115 SOLUBLE INORGANIC PYROPHOSPHATASE (PYROPHOSPHATE PHOSPHO-HYDROLASE) (PPASE) >gi_2668746 (AF034947) inorganic pyrophosphatase [Zea mays]'		

Seq. No.	55994	Seq. ID	OJ000403_23.0419.C12
Gene No.	117195	Strand	+
Start	2774	End	6472
Name	OJ000403_23.0419.C12.o2.np	Method	AAT/NAP
Start	3822	End	6414
GI	4033424	Score	833
Exons	3822..3948, 4035..4063, 5121..5186, 5431..5538, 5767..5832,		

5939..6059, 6160..6241, 6375..6414
 GI Descrip. SOLUBLE INORGANIC PYROPHOSPHATASE (PYROPHOSPHATE
 PHOSPHO-HYDROLASE) (PPASE) gi|2668746 (AF034947) inorganic
 pyrophosphatase [Zea mays]

Seq. No.	55994	Seq. ID	OJ000403_23.0419.C12
Gene No.	117196	Strand	-
Start	1	End	6448
Name	OJ000403_23.0419.C12.ol.np	Method	AAT/NAP
Start	1	End	4989
GI	6063557	Score	231
Exons	1..69, 1281..1523, 1772..1893, 4956..4989		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	55994	Seq. ID	OJ000403_23.0419.C12
Gene No.	117196	Strand	-
Start	1	End	6448
Name	OJ000403_23.0419.C12.ol.gs	Method	GENSCAN
Start	8	End	2184
GI	none	Score	.85
Exons	8..199, 348..507, 1298..1345, 1390..1523, 1991..2184		

Seq. No.	55994	Seq. ID	OJ000403_23.0419.C12
Gene No.	117196	Strand	-
Start	1	End	6448
Name	OJ000403_23.0419.C12.ol.tm	Method	TBLASTX:Maize
Start	3813	End	6448
GI	none	Score	53
Exons	3813..3857, 3816..3950, 3819..3857, 3854..3958, 3883..3951, 4030..4065, 4030..4074, 4034..4078, 5120..5188, 5121..5252, 5121..5189, 5425..5538, 5428..5538, 5430..5540, 5760..5831, 5764..5832, 5765..5833, 5933..6058, 5933..6058, 5937..6062, 5937..6062, 6162..6242, 6163..6240, 6183..6245, 6372..6437, 6375..6437, 6376..6438, 6380..6448		

Seq. No.	55994	Seq. ID	OJ000403_23.0419.C12
Gene No.	117196	Strand	-
Start	1	End	6448
Name	OJ000403_23.0419.C12.ol.tc	Method	TBLASTX:Cress
Start	3831	End	6242
GI	none	Score	162
Exons	3831..3956, 3857..3958, 3876..3986, 4030..4074, 5120..5188, 5121..5252, 5121..5189, 5428..5538, 5430..5561, 5430..5540, 5760..5828, 5764..5832, 5788..5832, 5932..6057, 5933..6058, 5934..6062, 6162..6242, 6163..6240		

Seq. No.	55994	Seq. ID	OJ000403_23.0419.C12
Gene No.	117196	Strand	-
Start	1	End	6448
Name	OJ000403_23.0419.C12.ol.ts	Method	TBLASTX:Soybean
Start	3869	End	6242
GI	none	Score	128
Exons	3869..3949, 3870..3950, 4030..4074, 4034..4066, 5120..5185, 5121..5252, 5428..5538, 5428..5538, 5433..5540, 5433..5540, 5742..5828, 5764..5832, 5764..5832, 5932..6057, 5933..6058, 5933..6058, 6160..6219, 6162..6242		

Seq. No.	55994	Seq. ID	OJ000403_23.0419.C12
Gene No.	117196	Strand	-
Start	1	End	6448
Name	OJ000403_23.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	5458	End	6417
GI	none	Score	135
Exons	5458..5538, 5458..5538, 5462..5563, 5760..5828, 5764..5832, 5764..5832, 5765..5833, 5766..5834, 5890..6057, 5933..6058, 5934..6059, 6160..6237, 6162..6242, 6197..6241, 6372..6416, 6376..6417		

Seq. No.	55995	Seq. ID	OJ000403_23.0419.C15
Gene No.	117197	Strand	+
Start	1055	End	2495
Name	OJ000403_23.0419.C15.o1.gs	Method	GENSCAN
Start	1055	End	2495
GI	none	Score	.46
Exons	1055..1076, 2401..2495		

Seq. No.	55995	Seq. ID	OJ000403_23.0419.C15
Gene No.	117198	Strand	-
Start	3560	End	4219
Name	OJ000403_23.0419.C15.o2.gs	Method	GENSCAN
Start	3560	End	4219
GI	none	Score	.52
Exons	3560..3946, 4166..4219		

Seq. No.	55996	Seq. ID	OJ000403_23.0419.C16
Gene No.	117199	Strand	+
Start	1	End	2913
Name	OJ000403_23.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	269
GI	7248393	Score	246
Exons	1..269		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	55996	Seq. ID	OJ000403_23.0419.C16
Gene No.	117199	Strand	+
Start	1	End	2913
Name	OJ000403_23.0419.C16.o1.gs	Method	GENSCAN
Start	72	End	2817
GI	none	Score	.66
Exons	72..141, 195..276, 543..582, 753..2817		

Seq. No.	55996	Seq. ID	OJ000403_23.0419.C16
Gene No.	117199	Strand	+
Start	1	End	2913
Name	OJ000403_23.0419.C16.o2.np	Method	AAT/NAP
Start	2412	End	2913
GI	7248394	Score	490
Exons	2412..2913		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	55996	Seq. ID	OJ000403_23.0419.C16
Gene No.	117199	Strand	+
Start	1	End	2913
Name	OJ000403_23.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	2556	End	2894
GI	none	Score	195
Exons	2556..2894		

Seq. No.	55997	Seq. ID	OJ000403_23.0419.C17
Gene No.	117200	Strand	+
Start	1	End	2334
Name	OJ000403_23.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	2334
GI	7248394	Score	1354
Exons	1..252, 520..1563, 2261..2334		
GI Descrip.	(AP001389) ESTs C97394(C60113), AU075824(R0165), D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	55997	Seq. ID	OJ000403_23.0419.C17
Gene No.	117200	Strand	+
Start	1	End	2334
Name	OJ000403_23.0419.C17.o1.gs	Method	GENSCAN
Start	84	End	2226
GI	none	Score	.86
Exons	84..2226		

Seq. No.	55997	Seq. ID	OJ000403_23.0419.C17
Gene No.	117200	Strand	+
Start	1	End	2334
Name	OJ000403_23.0419.C17.o3.ts	Method	TBLASTX:Soybean
Start	222	End	587
GI	none	Score	143
Exons	222..446, 233..412, 453..587		

Seq. No.	55997	Seq. ID	OJ000403_23.0419.C17
Gene No.	117200	Strand	+
Start	1	End	2334
Name	OJ000403_23.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	383	End	788
GI	none	Score	80
Exons	383..430, 384..440, 435..788, 443..745, 447..785		

Seq. No.	55997	Seq. ID	OJ000403_23.0419.C17
Gene No.	117200	Strand	+
Start	1	End	2334
Name	OJ000403_23.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	438	End	656
GI	none	Score	285
Exons	438..656, 438..614, 443..655		

Seq. No.	55997	Seq. ID	OJ000403_23.0419.C17
Gene No.	117200	Strand	+
Start	1	End	2334
Name	OJ000403_23.0419.C17.o1.tm	Method	TBLASTX:Maize

Start	657	End	1118
GI	none	Score	564
Exons	657..1118, 657..1046, 992..1117		

Seq. No.	55997	Seq. ID	OJ000403_23.0419.C17
Gene No.	117200	Strand	+
Start	1	End	2334
Name	OJ000403_23.0419.C17.o2.tw	Method	TBLASTX:Wheat
Start	789	End	1187
GI	none	Score	199
Exons	789..1124, 806..916, 1104..1187		

Seq. No.	55997	Seq. ID	OJ000403_23.0419.C17
Gene No.	117200	Strand	+
Start	1	End	2334
Name	OJ000403_23.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	804	End	1274
GI	none	Score	222
Exons	804..1085, 842..916, 1086..1274, 1130..1261		

Seq. No.	55997	Seq. ID	OJ000403_23.0419.C17
Gene No.	117200	Strand	+
Start	1	End	2334
Name	OJ000403_23.0419.C17.o2.ts	Method	TBLASTX:Soybean
Start	1424	End	1837
GI	none	Score	143
Exons	1424..1576, 1425..1562, 1583..1666, 1584..1835, 1699..1734, 1715..1837		

Seq. No.	55997	Seq. ID	OJ000403_23.0419.C17
Gene No.	117200	Strand	+
Start	1	End	2334
Name	OJ000403_23.0419.C17.o3.tw	Method	TBLASTX:Wheat
Start	1470	End	1868
GI	none	Score	70
Exons	1470..1553, 1599..1868, 1610..1750		

Seq. No.	55998	Seq. ID	OJ000403_23.0419.C19
Gene No.	117201	Strand	+
Start	1953	End	5094
Name	OJ000403_23.0419.C19.o2.np	Method	AAT/NAP
Start	1953	End	5094
GI	7340868	Score	40
Exons	1953..1999, 3747..3861, 5005..5094		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	55998	Seq. ID	OJ000403_23.0419.C19
Gene No.	117201	Strand	+
Start	1953	End	5094
Name	OJ000403_23.0419.C19.o1.gp	Method	AAT/GAP
Start	2651	End	3209
GI	38782_1.R1084	Score	769
Exons	2651..3128, 3182..3209		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	55998	Seq. ID	OJ000403_23.0419.C19
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Gene No.	117202	Strand	-
Start	471	End	2302
Name	OJ000403_23.0419.C19.o1.gs	Method	GENSCAN
Start	471	End	1070
GI	none	Score	.99
Exons	471..917, 1023..1070		

Seq. No.	55998	Seq. ID	OJ000403_23.0419.C19
Gene No.	117202	Strand	-
Start	471	End	2302
Name	OJ000403_23.0419.C19.o1.np	Method	AAT/NAP
Start	863	End	2302
GI	6907088	Score	1065
Exons	863..1254, 1753..1989, 2165..2302		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	55998	Seq. ID	OJ000403_23.0419.C19
Gene No.	117203	Strand	-
Start	3950	End	5267
Name	OJ000403_23.0419.C19.o3.np	Method	AAT/NAP
Start	3860	End	5267
GI	5777633	Score	410
Exons	3860..3892, 3956..4188, 4438..4483, 5229..5267		
GI Descrip.	(AJ245900) CAA303721.1 protein [Oryza sativa]		

Seq. No.	55998	Seq. ID	OJ000403_23.0419.C19
Gene No.	117203	Strand	-
Start	3950	End	5267
Name	OJ000403_23.0419.C19.o2.gs	Method	GENSCAN
Start	3950	End	4483
GI	none	Score	.68
Exons	3950..4188, 4438..4483		

Seq. No.	55999	Seq. ID	OJ000403_23.0419.C20
Gene No.	117204	Strand	+
Start	232	End	329
Name	OJ000403_23.0419.C20.o1.gs	Method	GENSCAN
Start	232	End	329
GI	none	Score	.72
Exons	232..329		

Seq. No.	56000	Seq. ID	OJ000403_23.0419.C21
Gene No.	117205	Strand	-
Start	480	End	1411
Name	OJ000403_23.0419.C21.o1.gs	Method	GENSCAN
Start	480	End	1411
GI	none	Score	.66
Exons	480..614, 1187..1411		

Seq. No.	56001	Seq. ID	OJ000403_23.0419.C22
Gene No.	117206	Strand	+
Start	70	End	8592
Name	OJ000403_23.0419.C22.o1.gs	Method	GENSCAN
Start	70	End	8235
GI	none	Score	.57
Exons	70..248, 2707..2784, 2866..2987, 3908..4015, 4225..4288, 4695..4716, 5543..5629, 5930..6019, 6090..6176, 6265..6390,		

7091..8235

Seq. No.	56001	Seq. ID	OJ000403_23.0419.C22
Gene No.	117206	Strand	+
Start	70	End	8592
Name	OJ000403_23.0419.C22.o1.np	Method	AAT/NAP
Start	5473	End	8592
GI	2829910	Score	1607
Exons	5473..5629, 5930..6019, 6090..6176, 6265..6415, 7099..8592		
GI Descrip.	(AC002291) Unknown protein, contains regulator of chromosome condensation motifs [Arabidopsis thaliana]		

Seq. No.	56001	Seq. ID	OJ000403_23.0419.C22
Gene No.	117206	Strand	+
Start	70	End	8592
Name	OJ000403_23.0419.C22.o2.ts	Method	TBLASTX:Soybean
Start	5570	End	7453
GI	none	Score	96
Exons	5570..5629, 5572..5631, 5929..6018, 5931..6017, 6092..6175, 6093..6179, 6264..6338, 6264..6329, 6265..6339, 6265..6333, 7217..7258, 7243..7290, 7243..7311, 7306..7359, 7307..7360, 7376..7453		

Seq. No.	56001	Seq. ID	OJ000403_23.0419.C22
Gene No.	117206	Strand	+
Start	70	End	8592
Name	OJ000403_23.0419.C22.o2.tm	Method	TBLASTX:Maize
Start	7143	End	7312
GI	none	Score	134
Exons	7143..7250, 7144..7251, 7145..7249, 7245..7301, 7246..7296, 7247..7312		

Seq. No.	56001	Seq. ID	OJ000403_23.0419.C22
Gene No.	117206	Strand	+
Start	70	End	8592
Name	OJ000403_23.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	7397	End	8203
GI	none	Score	747
Exons	7397..7990, 7403..7897, 7618..7989, 7792..7983, 8005..8040, 8006..8203, 8006..8140		

Seq. No.	56001	Seq. ID	OJ000403_23.0419.C22
Gene No.	117206	Strand	+
Start	70	End	8592
Name	OJ000403_23.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	7421	End	8257
GI	none	Score	61
Exons	7421..7558, 7460..7561, 7514..7699, 7616..7699, 7742..7882, 7790..7822, 7810..7920, 7811..7978, 7934..8020, 7963..7989, 8000..8257, 8005..8250, 8006..8218, 8006..8065, 8009..8257		

Seq. No.	56001	Seq. ID	OJ000403_23.0419.C22
Gene No.	117206	Strand	+
Start	70	End	8592
Name	OJ000403_23.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	7454	End	8218
GI	none	Score	150

56500

Exons 7454..7657, 7543..7560, 7586..7738, 7670..8011, 7678..8007,
8005..8103, 8006..8140, 8018..8041, 8135..8218

Seq. No.	56002	Seq. ID	OJ000403_23.0419.C24
Gene No.	117207	Strand	+
Start	1	End	146
Name	OJ000403_23.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	146
GI	7523512	Score	184
Exons	1..146		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	56003	Seq. ID	OJ000403_23.0419.C25
Gene No.	117208	Strand	-
Start	1	End	388
Name	OJ000403_23.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	388
GI	7248393	Score	158
Exons	1..388		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	56003	Seq. ID	OJ000403_23.0419.C25
Gene No.	117208	Strand	-
Start	1	End	388
Name	OJ000403_23.0419.C25.o1.gs	Method	GENSCAN
Start	31	End	388
GI	none	Score	.45
Exons	31..388		

Seq. No.	56003	Seq. ID	OJ000403_23.0419.C25
Gene No.	117209	Strand	-
Start	435	End	559
Name	OJ000403_23.0419.C25.o2.np	Method	AAT/NAP
Start	435	End	559
GI	7340868	Score	61
Exons	435..559		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	56004	Seq. ID	OJ000403_23.0419.C28
Gene No.	117210	Strand	-
Start	148	End	303
Name	OJ000403_23.0419.C28.o1.gs	Method	GENSCAN
Start	148	End	303
GI	none	Score	.44
Exons	148..303		

Seq. No.	56005	Seq. ID	OJ000403_23.0419.C29
Gene No.	117211	Strand	+
Start	53	End	373
Name	OJ000403_23.0419.C29.o1.gs	Method	GENSCAN
Start	53	End	373
GI	none	Score	.54
Exons	53..373		

Seq. No.	56006	Seq. ID	OJ000403_23.0419.C30
Gene No.	117212	Strand	+
Start	3858	End	5029

Name	OJ000403_23.0419.C30.o2.gs	Method	GENSCAN
Start	3858	End	5029
GI	none	Score	.65
Exons	3858..4027, 4247..4355, 4862..5029		
Seq. No.	56006	Seq. ID	OJ000403_23.0419.C30
Gene No.	117213	Strand	+
Start	5224	End	6172
Name	OJ000403_23.0419.C30.o3.gs	Method	GENSCAN
Start	5224	End	6172
GI	none	Score	.55
Exons	5224..5268, 5368..5534, 5608..5820, 5965..6172		
Seq. No.	56006	Seq. ID	OJ000403_23.0419.C30
Gene No.	117214	Strand	-
Start	628	End	1315
Name	OJ000403_23.0419.C30.o1.gs	Method	GENSCAN
Start	628	End	1254
GI	none	Score	.93
Exons	628..1254		
Seq. No.	56006	Seq. ID	OJ000403_23.0419.C30
Gene No.	117214	Strand	-
Start	628	End	1315
Name	OJ000403_23.0419.C30.o1.np	Method	AAT/NAP
Start	631	End	1233
GI	7362791	Score	550
Exons	631..1233		
GI Descrip.	(AL138638) nodulin-like protein [Arabidopsis thaliana]		
Seq. No.	56006	Seq. ID	OJ000403_23.0419.C30
Gene No.	117214	Strand	-
Start	628	End	1315
Name	OJ000403_23.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	650	End	1176
GI	none	Score	62
Exons	650..847, 949..1176, 971..1126		
Seq. No.	56006	Seq. ID	OJ000403_23.0419.C30
Gene No.	117214	Strand	-
Start	628	End	1315
Name	OJ000403_23.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	802	End	1191
GI	none	Score	35
Exons	802..843, 824..844, 946..1191, 974..1126, 1141..1191		
Seq. No.	56006	Seq. ID	OJ000403_23.0419.C30
Gene No.	117214	Strand	-
Start	628	End	1315
Name	OJ000403_23.0419.C30.o1.gp	Method	AAT/GAP
Start	934	End	1315
GI	15915_1.R1084	Score	701
Exons	934..1315		
GI Descrip.	'128405/sp P16313 N021_SOYBN 1.0e-24 NODULIN 21 (N-21) >gi_99942_pir_S08632_nodulin-21 - soybean >gi_18694_emb_CAA34506_ (X16488) nodulin-21 (AA 1-201) [Glycine max]'		

Seq. No.	56006	Seq. ID	OJ000403_23.0419.C30
Gene No.	117214	Strand	-
Start	628	End	1315
Name	OJ000403_23.0419.C30.ol.tc	Method	TBLASTX:Cress
Start	961	End	1167
GI	none	Score	173
Exons	961..1167, 974..1126		

Seq. No.	56007	Seq. ID	OJ000403_23.0419.C31
Gene No.	117215	Strand	+
Start	1	End	4710
Name	OJ000403_23.0419.C31.ol.gp	Method	AAT/GAP
Start	1	End	96
GI	LIB3433-016-Q6-K6-H11	Score	180
Exons	1..96		
GI Descrip.	'2829924 7.0e-19 (AC002291) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	56007	Seq. ID	OJ000403_23.0419.C31
Gene No.	117215	Strand	+
Start	1	End	4710
Name	OJ000403_23.0419.C31.ol.np	Method	AAT/NAP
Start	1	End	480
GI	2829924	Score	357
Exons	1..223, 278..480		
GI Descrip.	(AC002291) Unknown protein [Arabidopsis thaliana]		

Seq. No.	56007	Seq. ID	OJ000403_23.0419.C31
Gene No.	117215	Strand	+
Start	1	End	4710
Name	OJ000403_23.0419.C31.ol.gs	Method	GENSCAN
Start	91	End	4710
GI	none	Score	.68
Exons	91..460, 3793..3928, 4575..4710		

Seq. No.	56007	Seq. ID	OJ000403_23.0419.C31
Gene No.	117215	Strand	+
Start	1	End	4710
Name	OJ000403_23.0419.C31.o2.gp	Method	AAT/GAP
Start	330	End	547
GI	2796570	Score	390
Exons	330..547		

Seq. No.	56007	Seq. ID	OJ000403_23.0419.C31
Gene No.	117216	Strand	+
Start	7244	End	7861
Name	OJ000403_23.0419.C31.o2.gs	Method	GENSCAN
Start	7244	End	7861
GI	none	Score	.88
Exons	7244..7861		

Seq. No.	56007	Seq. ID	OJ000403_23.0419.C31
Gene No.	117217	Strand	-
Start	1723	End	3028
Name	OJ000403_23.0419.C31.ol.ts	Method	TBLASTX:Soybean
Start	1	End	483

GI	none	Score	116
Exons	1..129, 1..126, 133..222, 135..221, 283..399, 370..483		
Seq. No.	56007	Seq. ID	OJ000403_23.0419.C31
Gene No.	117217	Strand	-
Start	1723	End	3028
Name	OJ000403_23.0419.C31.o1.tc	Method	TBLASTX:Cress
Start	94	End	483
GI	none	Score	156
Exons	94..222, 108..221, 307..366, 346..366, 397..483, 408..479		
Seq. No.	56007	Seq. ID	OJ000403_23.0419.C31
Gene No.	117217	Strand	-
Start	1723	End	3028
Name	OJ000403_23.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	304	End	488
GI	none	Score	151
Exons	304..390, 304..375, 367..483, 385..483, 389..484, 402..488		
Seq. No.	56007	Seq. ID	OJ000403_23.0419.C31
Gene No.	117217	Strand	-
Start	1723	End	3028
Name	OJ000403_23.0419.C31.o1.tw	Method	TBLASTX:Wheat
Start	376	End	713
GI	none	Score	190
Exons	376..483, 383..469, 392..493, 402..479, 494..532, 499..555, 500..556, 541..579, 560..676, 578..670, 579..671, 669..713		
Seq. No.	56007	Seq. ID	OJ000403_23.0419.C31
Gene No.	117217	Strand	-
Start	1723	End	3028
Name	OJ000403_23.0419.C31.o2.np	Method	AAT/NAP
Start	1723	End	3028
GI	6815099	Score	97
Exons	1723..1852, 2895..3028		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		
Seq. No.	56008	Seq. ID	OJ000403_23.0419.C32
Gene No.	117218	Strand	+
Start	26	End	5383
Name	OJ000403_23.0419.C32.o3.tm	Method	TBLASTX:Maize
Start	1	End	340
GI	none	Score	108
Exons	1..138, 1..135, 178..327, 227..340, 254..334		
Seq. No.	56008	Seq. ID	OJ000403_23.0419.C32
Gene No.	117218	Strand	+
Start	26	End	5383
Name	OJ000403_23.0419.C32.o1.np	Method	AAT/NAP
Start	26	End	5383
GI	6598802	Score	639
Exons	26..484, 1381..1450, 1548..1787, 2165..2250, 2561..2668, 2762..2835, 4355..4530, 4599..4694, 5086..5166, 5276..5383		
GI Descrip.	(AF024504) putative protein kinase [Arabidopsis thaliana]		
Seq. No.	56008	Seq. ID	OJ000403_23.0419.C32
Gene No.	117218	Strand	+

Start	26	End	5383
Name	OJ000403_23.0419.C32.o1.gs	Method	GENSCAN
Start	52	End	5326
GI	none	Score	.74
Exons	52..143, 229..408, 660..761, 1378..1445, 2151..2250, 2561..2668, 4431..4530, 4599..4694, 5086..5166, 5276..5326		

Seq. No.	56008	Seq. ID	OJ000403_23.0419.C32
Gene No.	117218	Strand	+
Start	26	End	5383
Name	OJ000403_23.0419.C32.o4.tm	Method	TBLASTX:Maize
Start	1376	End	1666
GI	none	Score	82
Exons	1376..1450, 1382..1450, 1491..1661, 1522..1659, 1544..1666, 1545..1661		

Seq. No.	56008	Seq. ID	OJ000403_23.0419.C32
Gene No.	117218	Strand	+
Start	26	End	5383
Name	OJ000403_23.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	1400	End	5169
GI	none	Score	56
Exons	1400..1444, 1405..1443, 1536..1658, 1540..1659, 1553..1660, 1571..1660, 2760..2834, 4353..4517, 4354..4533, 4598..4696, 4599..4700, 5086..5169		

Seq. No.	56008	Seq. ID	OJ000403_23.0419.C32
Gene No.	117218	Strand	+
Start	26	End	5383
Name	OJ000403_23.0419.C32.o1.tw	Method	TBLASTX:Wheat
Start	2140	End	4500
GI	none	Score	143
Exons	2140..2253, 2141..2251, 2148..2273, 2180..2272, 2552..2665, 2553..2669, 2562..2666, 2563..2691, 2759..2833, 2760..2834, 2761..2841, 2770..2841, 4286..4318, 4340..4498, 4353..4499, 4354..4500		

Seq. No.	56008	Seq. ID	OJ000403_23.0419.C32
Gene No.	117218	Strand	+
Start	26	End	5383
Name	OJ000403_23.0419.C32.o2.tm	Method	TBLASTX:Maize
Start	2201	End	2840
GI	none	Score	72
Exons	2201..2251, 2203..2250, 2552..2668, 2553..2669, 2562..2669, 2563..2676, 2751..2834, 2762..2833, 2763..2840, 2764..2835		

Seq. No.	56008	Seq. ID	OJ000403_23.0419.C32
Gene No.	117218	Strand	+
Start	26	End	5383
Name	OJ000403_23.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	4338	End	5328
GI	none	Score	157
Exons	4338..4514, 4340..4528, 4352..4528, 4353..4532, 4354..4533, 4598..4696, 4599..4700, 4600..4701, 5041..5169, 5083..5169, 5268..5327, 5269..5328, 5273..5326, 5274..5327		

Seq. No.	56008	Seq. ID	OJ000403_23.0419.C32
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Gene No.	117218	Strand	+
Start	26	End	5383
Name	OJ000403_23.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	4368	End	5326
GI	none	Score	204
Exons	4368..4517, 4369..4533, 4598..4696, 4599..4700, 5083..5169, 5085..5159, 5276..5326		

Seq. No.	56008	Seq. ID	OJ000403_23.0419.C32
Gene No.	117218	Strand	+
Start	26	End	5383
Name	OJ000403_23.0419.C32.o2.tw	Method	TBLASTX:Wheat
Start	4503	End	5337
GI	none	Score	53
Exons	4503..4532, 4503..4532, 4504..4533, 4596..4697, 4597..4695, 4599..4700, 4600..4731, 4996..5160, 5040..5168, 5083..5169, 5085..5168, 5272..5325, 5276..5326, 5292..5330, 5293..5337		

Seq. No.	56009	Seq. ID	OJ000403_23.0419.C33
Gene No.	117219	Strand	+
Start	1039	End	1484
Name	OJ000403_23.0419.C33.o1.gs	Method	GENSCAN
Start	1039	End	1438
GI	none	Score	.74
Exons	1039..1284, 1361..1438		

Seq. No.	56009	Seq. ID	OJ000403_23.0419.C33
Gene No.	117219	Strand	+
Start	1039	End	1484
Name	OJ000403_23.0419.C33.o1.np	Method	AAT/NAP
Start	1048	End	1484
GI	4895200	Score	174
Exons	1048..1284, 1361..1484		
GI Descrip.	(AC007661) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	56009	Seq. ID	OJ000403_23.0419.C33
Gene No.	117219	Strand	+
Start	1039	End	1484
Name	OJ000403_23.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	1072	End	1481
GI	none	Score	79
Exons	1072..1182, 1079..1180, 1108..1296, 1116..1283, 1359..1436, 1359..1436, 1361..1465, 1449..1481		

Seq. No.	56010	Seq. ID	OJ000403_23.0419.C34
Gene No.	117220	Strand	+
Start	1	End	1148
Name	OJ000403_23.0419.C34.o1.np	Method	AAT/NAP
Start	1	End	1148
GI	5080805	Score	86
Exons	1..60, 972..1148		
GI Descrip.	(AC007258) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56010	Seq. ID	OJ000403_23.0419.C34
Gene No.	117220	Strand	+
Start	1	End	1148
Name	OJ000403_23.0419.C34.o1.gs	Method	GENSCAN

Start 922
GI none
Exons 922..1086

End 1086
Score .63

Seq. No. 56011
Gene No. 117221
Start 5344
Name OJ000303_14.0419.C2.o1.np
Start 5344
GI 6522567
Exons 5344..5547, 5635..6969
GI Descrip. (AL132967) 4-coumarate-CoA ligase-like protein [Arabidopsis thaliana]

Seq. ID OJ000303_14.0419.C2
Strand +
End 7832
Method AAT/NAP
End 6969
Score 1814

Seq. No. 56011
Gene No. 117221
Start 5344
Name OJ000303_14.0419.C2.o2.gs
Start 5344
GI none
Exons 5344..5547, 5635..6983, 7262..7407, 7444..7678, 7781..7832

Seq. ID OJ000303_14.0419.C2
Strand +
End 7832
Method GENSCAN
End 7832
Score .98

Seq. No. 56011
Gene No. 117221
Start 5344
Name OJ000303_14.0419.C2.o1.gp
Start 5857
GI 2119_1.R1084
Exons 5857..5909, 5994..7154
GI Descrip. '3184098/emb|CAA19311.1| 1.0e-81 (AL023777) coenzyme a synthetase [Schizosaccharomyces pombe]'

Seq. ID OJ000303_14.0419.C2
Strand +
End 7832
Method AAT/GAP
End 7154
Score 2361

Seq. No. 56011
Gene No. 117222
Start 8754
Name OJ000303_14.0419.C2.o3.gs
Start 8754
GI none
Exons 8754..8999, 9227..9448, 9575..9732, 9842..9974, 10045..10250, 10323..10466, 11148..11218, 12311..12454, 12534..12605, 13078..13216, 13670..13781

Seq. ID OJ000303_14.0419.C2
Strand -
End 14063
Method GENSCAN
End 13781
Score .87

Seq. No. 56011
Gene No. 117222
Start 8754
Name OJ000303_14.0419.C2.o2.np
Start 8757
GI 6633847
Exons 8757..8999, 9227..9448, 9575..9732, 9842..9974, 10030..10250, 10323..10510, 11073..11416, 12083..12212, 12311..12454, 12534..12629, 13078..13216, 13982..14063
GI Descrip. (AC008047) F2K11.19 [Arabidopsis thaliana]

Seq. ID OJ000303_14.0419.C2
Strand -
End 14063
Method AAT/NAP
End 14063
Score 1278

Seq. No. 56011
Gene No. 117222
Start 8754
Name OJ000303_14.0419.C2.o2.gp

Seq. ID OJ000303_14.0419.C2
Strand -
End 14063
Method AAT/GAP

Start 10045
GI 4969171
Exons 10045..10250, 10323..10569

End 10569
Score 779

Seq. No. 56011
Gene No. 117223
Start 15138
Name OJ000303_14.0419.C2.o2.tw
Start 340
GI none
Exons 340..438, 6787..6963, 6787..6960, 6789..6962

Seq. ID OJ000303_14.0419.C2
Strand -
End 18775
Method TBLASTX:Wheat
End 6963
Score 249

Seq. No. 56011
Gene No. 117223
Start 15138
Name OJ000303_14.0419.C2.o1.ts
Start 5376
GI none
Exons 5376..5435, 5392..5442, 5497..5547, 5506..5544, 5629..5838, 5634..5801, 5913..6440, 5914..6981, 6504..6596, 6654..6959

Seq. ID OJ000303_14.0419.C2
Strand -
End 18775
Method TBLASTX:Soybean
End 6981
Score 66

Seq. No. 56011
Gene No. 117223
Start 15138
Name OJ000303_14.0419.C2.o3.tc
Start 5392
GI none
Exons 5392..5547, 5505..5546, 5629..5838, 5634..5837

Seq. ID OJ000303_14.0419.C2
Strand -
End 18775
Method TBLASTX:Cress
End 5838
Score 115

Seq. No. 56011
Gene No. 117223
Start 15138
Name OJ000303_14.0419.C2.o5.tc
Start 5919
GI none
Exons 5919..6122, 5920..6075

Seq. ID OJ000303_14.0419.C2
Strand -
End 18775
Method TBLASTX:Cress
End 6122
Score 234

Seq. No. 56011
Gene No. 117223
Start 15138
Name OJ000303_14.0419.C2.o1.tm
Start 6007
GI none
Exons 6007..6258, 6009..6257, 6219..6752, 6262..6753, 6607..6777, 6754..6966, 6755..6862, 6757..6966

Seq. ID OJ000303_14.0419.C2
Strand -
End 18775
Method TBLASTX:Maize
End 6966
Score 297

Seq. No. 56011
Gene No. 117223
Start 15138
Name OJ000303_14.0419.C2.o1.tc
Start 6124
GI none
Exons 6124..6726, 6129..6440, 6436..6480, 6504..6602, 6607..6717, 6654..6725

Seq. ID OJ000303_14.0419.C2
Strand -
End 18775
Method TBLASTX:Cress
End 6726
Score 813

Seq. No. 56011
Gene No. 117223

Seq. ID OJ000303_14.0419.C2
Strand -

Start	15138	End	18775
Name	OJ000303_14.0419.C2.o2.tc	Method	TBLASTX:Cress
Start	6736	End	6960
GI	none	Score	309
Exons	6736..6960, 6744..6956		

Seq. No.	56011	Seq. ID	OJ000303_14.0419.C2
Gene No.	117223	Strand	-
Start	15138	End	18775
Name	OJ000303_14.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	8815	End	12127
GI	none	Score	182
Exons	8815..9000, 8817..8999, 8882..9007, 9218..9325, 9222..9341, 9222..9323, 9227..9325, 9323..9406, 9324..9401, 9328..9432, 9328..9417, 9410..9460, 9415..9471, 9416..9472, 9572..9730, 9573..9731, 9575..9733, 9576..9731, 9655..9750, 9814..9975, 9819..9974, 9841..9975, 10037..10294, 10042..10251, 10043..10264, 10320..10409, 10324..10512, 10325..10513, 10325..10513, 10446..10517, 10523..10558, 11121..11219, 11145..11219, 11146..11220, 11146..11220, 11147..11221, 11260..11382, 11282..11389, 11283..11390, 12060..12125, 12062..12127		

Seq. No.	56011	Seq. ID	OJ000303_14.0419.C2
Gene No.	117223	Strand	-
Start	15138	End	18775
Name	OJ000303_14.0419.C2.o4.tc	Method	TBLASTX:Cress
Start	8883	End	9665
GI	none	Score	63
Exons	8883..8999, 9221..9406, 9226..9312, 9231..9317, 9404..9460, 9572..9664, 9573..9665		

Seq. No.	56011	Seq. ID	OJ000303_14.0419.C2
Gene No.	117223	Strand	-
Start	15138	End	18775
Name	OJ000303_14.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	9611	End	9965
GI	none	Score	105
Exons	9611..9715, 9837..9965, 9838..9945		

Seq. No.	56011	Seq. ID	OJ000303_14.0419.C2
Gene No.	117223	Strand	-
Start	15138	End	18775
Name	OJ000303_14.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	10318	End	10542
GI	none	Score	171
Exons	10318..10539, 10321..10542, 10322..10540		

Seq. No.	56011	Seq. ID	OJ000303_14.0419.C2
Gene No.	117223	Strand	-
Start	15138	End	18775
Name	OJ000303_14.0419.C2.o4.gs	Method	GENSCAN
Start	15138	End	18775
GI	none	Score	.55
Exons	15138..15167, 17607..17710, 18760..18775		

Seq. No.	56012	Seq. ID	OJ000303_14.0419.C3
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Gene No.	117224	Strand	+
Start	4377	End	6909
Name	OJ000303_14.0419.C3.o2.gs	Method	GENSCAN
Start	4377	End	6505
GI	none	Score	.52
Exons	4377..4661, 4679..4749, 4917..5218, 6297..6505		

Seq. No.	56012	Seq. ID	OJ000303_14.0419.C3
Gene No.	117224	Strand	+
Start	4377	End	6909
Name	OJ000303_14.0419.C3.o2.np	Method	AAT/NAP
Start	4404	End	4839
GI	2398533	Score	184
Exons	4404..4480, 4523..4839		
GI Descrip.	(Y13725) Transcription factor [Arabidopsis thaliana]		

Seq. No.	56012	Seq. ID	OJ000303_14.0419.C3
Gene No.	117224	Strand	+
Start	4377	End	6909
Name	OJ000303_14.0419.C3.o3.np	Method	AAT/NAP
Start	5098	End	6909
GI	7340884	Score	88
Exons	5098..5248, 6826..6909		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	56012	Seq. ID	OJ000303_14.0419.C3
Gene No.	117225	Strand	-
Start	276	End	3570
Name	OJ000303_14.0419.C3.o1.gs	Method	GENSCAN
Start	276	End	3570
GI	none	Score	.66
Exons	276..435, 994..1100, 1238..1325, 1643..1719, 1801..1973, 2935..3009, 3198..3570		

Seq. No.	56012	Seq. ID	OJ000303_14.0419.C3
Gene No.	117225	Strand	-
Start	276	End	3570
Name	OJ000303_14.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	1301	End	1992
GI	none	Score	133
Exons	1301..1330, 1406..1528, 1408..1527, 1628..1738, 1642..1737, 1918..1992		

Seq. No.	56012	Seq. ID	OJ000303_14.0419.C3
Gene No.	117225	Strand	-
Start	276	End	3570
Name	OJ000303_14.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	1424	End	1920
GI	none	Score	148
Exons	1424..1528, 1426..1527, 1427..1534, 1429..1530, 1628..1708, 1638..1721, 1638..1721, 1639..1722, 1642..1737, 1801..1920, 1801..1917, 1814..1918		

Seq. No.	56012	Seq. ID	OJ000303_14.0419.C3
Gene No.	117226	Strand	
Start	4440	End	4723

Name	OJ000303_14.0419.C3.ol.tc	Method	TBLASTX:Cress
Start	4440	End	4723
GI	none	Score	60
Exons	4440..4478, 4448..4477, 4535..4666, 4536..4667, 4667..4723		

Seq. No.	56012	Seq. ID	OJ000303_14.0419.C3
Gene No.	117226	Strand	
Start	4440	End	4723
Name	OJ000303_14.0419.C3.o2.ts	Method	TBLASTX:Soybean
Start	4440	End	4723
GI	none	Score	61
Exons	4440..4478, 4536..4667, 4667..4723		

Seq. No.	56012	Seq. ID	OJ000303_14.0419.C3
Gene No.	117226	Strand	
Start	4440	End	4723
Name	OJ000303_14.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	4446	End	4714
GI	none	Score	52
Exons	4446..4478, 4536..4667, 4539..4664, 4666..4713, 4667..4714		

Seq. No.	56013	Seq. ID	OJ000303_14.0419.C4
Gene No.	117227	Strand	+
Start	912	End	1421
Name	OJ000303_14.0419.C4.ol.tm	Method	TBLASTX:Maize
Start	866	End	1124
GI	none	Score	355
Exons	866..1123, 900..1124		

Seq. No.	56013	Seq. ID	OJ000303_14.0419.C4
Gene No.	117227	Strand	+
Start	912	End	1421
Name	OJ000303_14.0419.C4.ol.np	Method	AAT/NAP
Start	912	End	1421
GI	7487678	Score	462
Exons	912..1421		
GI Descrip.	hypothetical protein T5C23.50 - Arabidopsis thaliana gi 4539453 emb CAB39933.1 (AL049500) putative protein [Arabidopsis thaliana] gi 7267862 emb CAB78205.1 (AL161532) putative protein [Arabidopsis thaliana]		

Seq. No.	56013	Seq. ID	OJ000303_14.0419.C4
Gene No.	117227	Strand	+
Start	912	End	1421
Name	OJ000303_14.0419.C4.ol.gs	Method	GENSCAN
Start	918	End	1187
GI	none	Score	.65
Exons	918..1187		

Seq. No.	56013	Seq. ID	OJ000303_14.0419.C4
Gene No.	117227	Strand	+
Start	912	End	1421
Name	OJ000303_14.0419.C4.ol.ts	Method	TBLASTX:Soybean
Start	920	End	1316
GI	none	Score	200
Exons	920..1153, 921..1157, 1169..1300, 1173..1316		

Seq. No. 56013
 Gene No. 117227
 Start 912
 Name OJ000303_14.0419.C4.o1.tc
 Start 926
 GI none
 Exons 926..1099, 930..1154

Seq. ID OJ000303_14.0419.C4
 Strand +
 End 1421
 Method TBLASTX:Cress
 End 1154
 Score 190

Seq. No. 56013
 Gene No. 117227
 Start 912
 Name OJ000303_14.0419.C4.o2.tm
 Start 1134
 GI none
 Exons 1134..1325, 1136..1324, 1165..1326

Seq. ID OJ000303_14.0419.C4
 Strand +
 End 1421
 Method TBLASTX:Maize
 End 1326
 Score 288

Seq. No. 56014
 Gene No. 117228
 Start 124
 Name OJ000303_14.0419.C5.o1.gs
 Start 124
 GI none
 Exons 124..250, 496..680

Seq. ID OJ000303_14.0419.C5
 Strand +
 End 680
 Method GENSCAN
 End 680
 Score .68

Seq. No. 56015
 Gene No. 117229
 Start 2658
 Name OJ000303_14.0419.C6.o1.tm
 Start 2658
 GI none
 Exons 2658..2891

Seq. ID OJ000303_14.0419.C6
 Strand +
 End 2891
 Method TBLASTX:Maize
 End 2891
 Score 189

Seq. No. 56016
 Gene No. 117230
 Start 2720
 Name OJ000303_14.0419.C7.o2.gs
 Start 2720
 GI none
 Exons 2720..2844, 3552..3597, 3751..3844, 3941..4014, 4707..4793, 5076..5186, 6338..6445, 6634..6848, 7307..7973, 8391..8651, 8691..8855, 9387..9638, 10244..10495, 10974..11234, 11329..11400, 12095..12244, 12421..12918, 13300..13498, 14684..14844, 15123..16540, 16777..16942, 17080..17170, 17423..17559, 17773..17892, 18125..18193, 18515..18610, 19216..19305, 19469..19624, 19713..19841, 20322..20487, 20676..20785, 21139..21197, 21747..21886, 21939..22063, 22682..22738, 22835..22909, 23095..23217

Seq. ID OJ000303_14.0419.C7
 Strand +
 End 23392
 Method GENSCAN
 End 23217
 Score .63

Seq. No. 56016
 Gene No. 117230
 Start 2720
 Name OJ000303_14.0419.C7.o1.np
 Start 2729
 GI 7269405
 Exons 2729..2844, 3552..3597, 3751..3853, 3906..4014, 4707..4811, 5076..5222
 GI Descrip. (AL161563) putative protein [Arabidopsis thaliana]

Seq. ID OJ000303_14.0419.C7
 Strand +
 End 23392
 Method AAT/NAP
 End 5222
 Score 665

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117230	Strand	+
Start	2720	End	23392
Name	OJ000303_14.0419.C7.o1.gp	Method	AAT/GAP
Start	3979	End	6301
GI	41674_1.R1084	Score	1423
Exons	3979..4014, 4707..4793, 5076..5186, 5784..6301		
GI Descrip.	'4101473 1.0e-35 (AF003382) KEA1 [Arabidopsis thaliana]'		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117230	Strand	+
Start	2720	End	23392
Name	OJ000303_14.0419.C7.o2.np	Method	AAT/NAP
Start	7072	End	14767
GI	3319876	Score	2314
Exons	7072..7973, 8391..8585, 8691..8855, 9152..9250, 9387..9638, 10244..10495, 10682..10813, 10974..11234, 11329..11400, 12095..12244, 12421..12779, 12824..12918, 13300..13355, 14658..14767		
GI Descrip.	(AJ007791) Msh3 protein [Arabidopsis thaliana]		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117230	Strand	+
Start	2720	End	23392
Name	OJ000303_14.0419.C7.o3.np	Method	AAT/NAP
Start	13888	End	16738
GI	7486552	Score	566
Exons	13888..13966, 15256..15715, 15836..16006, 16202..16552, 16708..16738		
GI Descrip.	hypothetical protein F6N23.14 - Arabidopsis thaliana gi 3047108 gb AAC13619.1 (AF058919) F6N23.14 gene product [Arabidopsis thaliana] gi 7267403 emb CAB80873.1 (AL161472) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117230	Strand	+
Start	2720	End	23392
Name	OJ000303_14.0419.C7.o4.np	Method	AAT/NAP
Start	17080	End	23214
GI	4101473	Score	2064
Exons	17080..17170, 17423..17559, 17637..17696, 17773..17892, 18125..18193, 18545..18610, 19216..19305, 19520..19624, 19713..19841, 20322..20531, 20636..20785, 20999..21052, 21139..21197, 21747..21813, 21887..22063, 22682..22738, 22835..22909, 23095..23214		
GI Descrip.	(AF003382) KEA1 [Arabidopsis thaliana]		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117230	Strand	+
Start	2720	End	23392
Name	OJ000303_14.0419.C7.o2.gp	Method	AAT/GAP
Start	19696	End	20740
GI	1631585	Score	792
Exons	19696..19841, 20322..20531, 20636..20740		
GI Descrip.	4101473 1.0e-35 (AF003382) KEA1 [Arabidopsis thaliana]		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117230	Strand	+
Start	2720	End	23392
Name	OJ000303_14.0419.C7.o3.gp	Method	AAT/GAP
Start	22689	End	23392
GI	2428987	Score	790
Exons	22689..22738, 22835..22909, 23095..23392		
GI Descrip.	3047127 1.0e-15 (AF058919) No definition line found [Arabidopsis thaliana]		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117231	Strand	+
Start	23439	End	23664
Name	OJ000303_14.0419.C7.o4.gp	Method	AAT/GAP
Start	23439	End	23664
GI	none	Score	385
Exons	23439..23664		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117232	Strand	+
Start	24892	End	30763
Name	OJ000303_14.0419.C7.o5.np	Method	AAT/NAP
Start	24892	End	30763
GI	6466937	Score	2397
Exons	24892..24978, 26136..26593, 26628..30345, 30655..30763		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117233	Strand	-
Start	348	End	2060
Name	OJ000303_14.0419.C7.o1.gs	Method	GENSCAN
Start	348	End	2060
GI	none	Score	.9
Exons	348..903, 2029..2060		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o3.tm	Method	TBLASTX:Maize
Start	3	End	28115
GI	none	Score	72
Exons	3..77, 27639..28115, 27672..28085, 27952..28086		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	6	End	28061
GI	none	Score	65
Exons	6..83, 27579..28061, 27683..28036		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o6.tw	Method	TBLASTX:Wheat
Start	2701	End	3810

GI	none	Score	198
Exons	2701..2847, 2704..2844, 3537..3599, 3549..3599, 3550..3600, 3553..3600, 3746..3778, 3750..3782, 3751..3777, 3769..3810, 3769..3807		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o11.tm	Method	TBLASTX:Maize
Start	2707	End	5858
GI	none	Score	154
Exons	2707..2844, 2708..2836, 2713..2847, 3537..3599, 3548..3610, 3553..3600, 3747..3842, 3750..3842, 3751..3849, 3751..3843, 3940..4017, 3940..4014, 3948..4016, 4699..4794, 4701..4793, 4706..4795, 4706..4795, 5073..5186, 5073..5186, 5074..5190, 5778..5858, 5783..5851		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o3.tc	Method	TBLASTX:Cress
Start	2719	End	4778
GI	none	Score	136
Exons	2719..2844, 2753..2836, 3550..3600, 3750..3842, 3750..3842, 3751..3843, 3751..3843, 3752..3859, 3940..4017, 3940..4017, 3941..4018, 4706..4774, 4707..4778		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o9.ts	Method	TBLASTX:Soybean
Start	2734	End	5825
GI	none	Score	95
Exons	2734..2808, 2753..2809, 2754..2804, 4701..4793, 4704..4793, 4712..4795, 4715..4795, 5073..5186, 5073..5186, 5074..5205, 5778..5825		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o5.ts	Method	TBLASTX:Soybean
Start	2809	End	4017
GI	none	Score	66
Exons	2809..2847, 3548..3610, 3551..3598, 3553..3600, 3747..3842, 3750..3842, 3751..3849, 3751..3843, 3940..4017, 3940..4014, 3948..4016		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	7072	End	13377
GI	none	Score	66
Exons	7072..7119, 7353..7616, 7367..7441, 7514..7615, 7659..7703, 7752..7787, 7809..7973, 7811..7972, 8378..8500, 8388..8501, 8693..8860, 8694..8858, 9137..9253, 9151..9255, 9386..9466, 9387..9638, 9551..9643, 10244..10408, 10298..10498,		

10336..10509, 10681..10815, 10682..10816, 10968..11228,
 10973..11221, 11326..11403, 12081..12245, 12081..12245,
 12095..12247, 12115..12246, 12410..12700, 12413..12553,
 12417..12782, 12421..12780, 12832..12921, 12840..12914,
 13297..13377

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o12.tm	Method	TBLASTX:Maize
Start	9187	End	10456
GI	none	Score	104
Exons	9187..9255, 9188..9253, 9386..9484, 9387..9485, 9466..9624, 9467..9637, 9470..9637, 9471..9638, 10243..10455, 10243..10455, 10244..10456		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o8.tm	Method	TBLASTX:Maize
Start	10997	End	12598
GI	none	Score	264
Exons	10997..11233, 10998..11234, 10999..11235, 11004..11249, 11279..11317, 11332..11403, 11337..11402, 12071..12244, 12075..12245, 12093..12245, 12094..12246, 12095..12247, 12413..12523, 12417..12524, 12418..12531, 12421..12525, 12516..12596, 12524..12598, 12526..12597		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o6.ts	Method	TBLASTX:Soybean
Start	12420	End	12702
GI	none	Score	259
Exons	12420..12542, 12421..12702, 12576..12650		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o13.tm	Method	TBLASTX:Maize
Start	12726	End	13521
GI	none	Score	111
Exons	12726..12815, 12727..12807, 12802..12921, 12807..12920, 12808..12927, 13296..13433, 13297..13437, 13425..13508, 13426..13509, 13427..13504, 13429..13521		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o7.tm	Method	TBLASTX:Maize
Start	15624	End	15893
GI	none	Score	366
Exons	15624..15893, 15637..15879, 15638..15892		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804

Name	OJ000303_14.0419.C7.o4.tm	Method	TBLASTX:Maize
Start	15957	End	16360
GI	none	Score	494
Exons	15957..16358, 15957..16298, 15958..16359, 16069..16359, 16172..16360, 16187..16360		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o2.tc	Method	TBLASTX:Cress
Start	16379	End	23217
GI	none	Score	103
Exons	16379..16474, 16484..16558, 16868..16945, 17079..17171, 17079..17171, 17080..17172, 17421..17570, 17422..17577, 17615..17698, 17630..17698, 17631..17705, 17769..17897, 17770..17898, 17772..17894, 18098..18193, 18115..18195, 18123..18194, 18544..18609, 19516..19605, 19520..19660, 19525..19620, 19712..19843, 19764..19844, 20321..20530, 20322..20531, 20452..20532, 20633..20785, 20674..20796, 20675..20806, 20998..21048, 20999..21055, 21139..21192, 21744..21815, 21745..21816, 21884..22066, 21884..22054, 21886..22062, 22673..22738, 22682..22705, 22831..22947, 22832..22918, 23092..23217, 23094..23144		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o14.tm	Method	TBLASTX:Maize
Start	16493	End	17662
GI	none	Score	49
Exons	16493..16540, 16778..16807, 16803..16943, 16807..16944, 17077..17169, 17079..17171, 17079..17171, 17080..17172, 17421..17552, 17421..17570, 17422..17577, 17631..17660, 17636..17662, 17636..17662		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	16865	End	17898
GI	none	Score	86
Exons	16865..16945, 17079..17171, 17079..17171, 17080..17172, 17421..17555, 17421..17570, 17422..17577, 17624..17701, 17626..17694, 17630..17698, 17631..17705, 17631..17699, 17772..17894, 17773..17898		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o9.tm	Method	TBLASTX:Maize
Start	17663	End	20531
GI	none	Score	62
Exons	17663..17698, 17664..17702, 17754..17891, 17770..17898, 17772..17897, 18098..18193, 18124..18195, 18133..18195, 18543..18611, 18544..18612, 18544..18618, 19215..19316, 19516..19635, 19519..19623, 19520..19660, 19712..19807, 19712..19804, 19799..19843, 19803..19844, 20321..20527,		

20322..20531

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	20321	End	23211
GI	none	Score	277
Exons	20321..20530, 20322..20531, 20428..20559, 20669..20785, 20674..20796, 20675..20806, 20742..20807, 20998..21051, 20999..21055, 21138..21191, 21139..21195, 21729..21821, 21745..21816, 21884..22066, 21885..22001, 21886..22062, 22673..22738, 22684..22710, 22831..22929, 22832..22930, 23092..23211		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o6.tm	Method	TBLASTX:Maize
Start	20633	End	23255
GI	none	Score	209
Exons	20633..20785, 20634..20807, 20674..20796, 20998..21051, 20999..21055, 21138..21191, 21139..21195, 21703..21732, 21744..21821, 21745..21816, 21884..22066, 21885..22007, 21886..22062, 22681..22710, 22682..22738, 22831..22908, 22832..22915, 22832..22915, 22834..22917, 23092..23187, 23094..23159, 23113..23217, 23148..23255		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o15.tm	Method	TBLASTX:Maize
Start	26492	End	26951
GI	none	Score	101
Exons	26492..26602, 26493..26603, 26679..26729, 26757..26951		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o16.tm	Method	TBLASTX:Maize
Start	27096	End	27314
GI	none	Score	199
Exons	27096..27314, 27138..27314		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o7.ts	Method	TBLASTX:Soybean
Start	27615	End	27929
GI	none	Score	243
Exons	27615..27929		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o4.tc	Method	TBLASTX:Cress
Start	27732	End	28031

GI	none	Score	185
Exons	27732..28031		
Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o3.ts	Method	TBLASTX:Soybean
Start	28035	End	28396
GI	none	Score	326
Exons	28035..28385, 28157..28396		
Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o4.tw	Method	TBLASTX:Wheat
Start	28110	End	28511
GI	none	Score	310
Exons	28110..28511, 28223..28474		
Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	28131	End	28684
GI	none	Score	642
Exons	28131..28679, 28143..28661, 28145..28684		
Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o8.ts	Method	TBLASTX:Soybean
Start	28419	End	28676
GI	none	Score	207
Exons	28419..28676, 28421..28570		
Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o10.tm	Method	TBLASTX:Maize
Start	28688	End	29087
GI	none	Score	175
Exons	28688..28843, 28689..28871, 28857..29087		
Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o3.tw	Method	TBLASTX:Wheat
Start	28856	End	29257
GI	none	Score	330
Exons	28856..29257, 28857..29255		
Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	29088	End	29726
GI	none	Score	300

Exons 29088..29384, 29090..29386, 29364..29726, 29374..29724

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o4.ts	Method	TBLASTX:Soybean
Start	29112	End	29496
GI	none	Score	210
Exons	29112..29384, 29225..29365, 29352..29495, 29374..29496		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o5.tw	Method	TBLASTX:Wheat
Start	29364	End	29736
GI	none	Score	282
Exons	29364..29735, 29371..29736		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o5.tm	Method	TBLASTX:Maize
Start	29730	End	30372
GI	none	Score	394
Exons	29730..30134, 29731..30141, 30118..30372, 30165..30350		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	29797	End	30201
GI	none	Score	357
Exons	29797..30201, 29809..30087, 29847..30179		

Seq. No.	56016	Seq. ID	OJ000303_14.0419.C7
Gene No.	117234	Strand	-
Start	30523	End	30804
Name	OJ000303_14.0419.C7.o4.gs	Method	GENSCAN
Start	30523	End	30804
GI	none	Score	.8
Exons	30523..30804		

Seq. No.	56017	Seq. ID	OJ000303_14.0419.C9
Gene No.	117235	Strand	+
Start	115	End	2361
Name	OJ000303_14.0419.C9.o1.gs	Method	GENSCAN
Start	115	End	2361
GI	none	Score	.97
Exons	115..149, 1833..2361		

Seq. No.	56017	Seq. ID	OJ000303_14.0419.C9
Gene No.	117236	Strand	-
Start	2750	End	4691
Name	OJ000303_14.0419.C9.o1.gp	Method	AAT/GAP
Start	2574	End	3244
GI	none	Score	1046
Exons	2574..2839, 2944..3244		

Seq. No.	56017	Seq. ID	OJ000303_14.0419.C9
Gene No.	117236	Strand	-
Start	2750	End	4691
Name	OJ000303_14.0419.C9.o2.gs	Method	GENSCAN
Start	2750	End	4040
GI	none	Score	.74
Exons	2750..2839, 2944..3045, 3119..3239, 3583..3746, 3877..4040		

Seq. No.	56017	Seq. ID	OJ000303_14.0419.C9
Gene No.	117236	Strand	-
Start	2750	End	4691
Name	OJ000303_14.0419.C9.o1.np	Method	AAT/NAP
Start	2941	End	4691
GI	7486562	Score	405
Exons	2941..3045, 3113..3239, 3547..3746, 3877..4040, 4565..4691		
GI Descrip.	hypothetical protein F6N23.5 - Arabidopsis thaliana gi 3047103 gb AAC13614.1 (AF058919) regions of weak similarity to l-asparaginase [Arabidopsis thaliana] gi 7267398 emb CAB80868.1 (AL161472) putative glycosylasparaginase [Arabidopsis thaliana]		

Seq. No.	56017	Seq. ID	OJ000303_14.0419.C9
Gene No.	117236	Strand	-
Start	2750	End	4691
Name	OJ000303_14.0419.C9.o2.gp	Method	AAT/GAP
Start	3943	End	4042
GI	none	Score	171
Exons	3943..4042		

Seq. No.	56018	Seq. ID	OJ000303_14.0419.C10
Gene No.	117237	Strand	+
Start	2201	End	8208
Name	OJ000303_14.0419.C10.o2.gs	Method	GENSCAN
Start	2201	End	8208
GI	none	Score	.87
Exons	2201..2207, 3525..3562, 3798..3875, 5376..5608, 5672..6756, 6855..7158, 7257..8208		

Seq. No.	56018	Seq. ID	OJ000303_14.0419.C10
Gene No.	117238	Strand	-
Start	1	End	1079
Name	OJ000303_14.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	995
GI	7486562	Score	296
Exons	1..235, 535..585, 852..995		
GI Descrip.	hypothetical protein F6N23.5 - Arabidopsis thaliana gi 3047103 gb AAC13614.1 (AF058919) regions of weak similarity to l-asparaginase [Arabidopsis thaliana] gi 7267398 emb CAB80868.1 (AL161472) putative glycosylasparaginase [Arabidopsis thaliana]		

Seq. No.	56018	Seq. ID	OJ000303_14.0419.C10
Gene No.	117238	Strand	-
Start	1	End	1079
Name	OJ000303_14.0419.C10.o1.gs	Method	GENSCAN
Start	115	End	1079

GI	none	Score	.78
Exons	115..235, 535..585, 852..1079		
Seq. No.	56018	Seq. ID	OJ000303_14.0419.C10
Gene No.	117239	Strand	-
Start	9609	End	11213
Name	OJ000303_14.0419.C10.o2.ts	Method	TBLASTX:Soybean
Start	6027	End	7785
GI	none	Score	117
Exons	6027..6290, 6066..6290, 6071..6289, 6348..6575, 6669..6863, 6690..6824, 6974..7051, 7537..7761, 7537..7785		

Seq. No.	56018	Seq. ID	OJ000303_14.0419.C10
Gene No.	117239	Strand	-
Start	9609	End	11213
Name	OJ000303_14.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	6054	End	7773
GI	none	Score	138
Exons	6054..6317, 6062..6280, 6066..6290, 6348..6575, 6690..6866, 7537..7752, 7537..7773		

Seq. No.	56018	Seq. ID	OJ000303_14.0419.C10
Gene No.	117239	Strand	-
Start	9609	End	11213
Name	OJ000303_14.0419.C10.o2.tc	Method	TBLASTX:Cress
Start	6066	End	7767
GI	none	Score	138
Exons	6066..6359, 6066..6290, 6348..6575, 6690..6863, 7537..7767, 7537..7761		

Seq. No.	56018	Seq. ID	OJ000303_14.0419.C10
Gene No.	117239	Strand	-
Start	9609	End	11213
Name	OJ000303_14.0419.C10.o3.gs	Method	GENSCAN
Start	9609	End	11213
GI	none	Score	.71
Exons	9609..9664, 10248..10299, 10850..10949, 11023..11078, 11160..11213		

Seq. No.	56018	Seq. ID	OJ000303_14.0419.C10
Gene No.	117239	Strand	-
Start	9609	End	11213
Name	OJ000303_14.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	9612	End	11198
GI	none	Score	70
Exons	9612..9668, 9615..9665, 10249..10305, 10249..10302, 10507..10596, 10512..10598, 10513..10599, 10650..10772, 10672..10773, 10672..10770, 10673..10777, 10674..10772, 10836..10955, 10838..10951, 10843..10965, 11022..11084, 11022..11084, 11158..11196, 11160..11198		

Seq. No.	56018	Seq. ID	OJ000303_14.0419.C10
Gene No.	117239	Strand	-
Start	9609	End	11213
Name	OJ000303_14.0419.C10.o3.np	Method	AAT/NAP
Start	9615	End	11195
GI	7444149	Score	548

Exons 9615..9664, 10248..10299, 10509..10598, 10675..10770,
10850..10949, 11023..11078, 11160..11195
GI Descrip. phosphomannomutase homolog F4I18.23 - Arabidopsis thaliana
gi|3386615|gb|AAC28545.1| (AC004665) putative phosphomannomutase
[Arabidopsis thaliana]

Seq. No.	56018	Seq. ID	OJ000303_14.0419.C10
Gene No.	117239	Strand	-
Start	9609	End	11213
Name	OJ000303_14.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	10493	End	10897
GI	none	Score	66
Exons	10493..10594, 10509..10598, 10513..10599, 10672..10770, 10673..10777, 10838..10897		

Seq. No.	56018	Seq. ID	OJ000303_14.0419.C10
Gene No.	117239	Strand	-
Start	9609	End	11213
Name	OJ000303_14.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	10507	End	11198
GI	none	Score	83
Exons	10507..10593, 10508..10594, 10509..10598, 10510..10599, 10653..10751, 10672..10770, 10673..10777, 10674..10772, 10828..10920, 10836..10955, 10838..10951, 11022..11084, 11023..11079, 11158..11196, 11160..11198		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117240	Strand	+
Start	6313	End	13743
Name	OJ000303_14.0419.C11.o3.gp	Method	AAT/GAP
Start	6100	End	6383
GI	4879882	Score	559
Exons	6100..6383		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117240	Strand	+
Start	6313	End	13743
Name	OJ000303_14.0419.C11.o2.gs	Method	GENSCAN
Start	6313	End	13710
GI	none	Score	.55
Exons	6313..6445, 7098..7252, 7333..7428, 7558..7666, 7752..7888, 8030..8104, 9791..10232, 10323..10408, 10519..10543, 10734..11034, 11159..11297, 11874..11958, 12050..12223, 13168..13197, 13292..13710		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117240	Strand	+
Start	6313	End	13743
Name	OJ000303_14.0419.C11.o4.gp	Method	AAT/GAP
Start	6393	End	8514
GI	20816_1.R1084	Score	1790
Exons	6393..6445, 7098..7252, 7333..7428, 7507..7666, 7752..7888, 8030..8104, 8205..8514		
GI Descrip.	'2293332 4.0e-28 (AF011338) unknown [Dictyostelium discoideum]'		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117240	Strand	+

Start	6313	End	13743
Name	OJ000303_14.0419.C11.o3.np	Method	AAT/NAP
Start	7588	End	8137
GI	3252825	Score	193
Exons	7588..7657, 7737..7888, 8030..8137		
GI Descrip.	(AC004382) Unknown gene product [Homo sapiens]		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117240	Strand	+
Start	6313	End	13743
Name	OJ000303_14.0419.C11.o4.np	Method	AAT/NAP
Start	9794	End	12255
GI	7019689	Score	948
Exons	9794..10232, 10323..10408, 10493..10543, 10649..11034, 11159..11297, 11726..11781, 11888..11958, 12050..12255		
GI Descrip.	(AL138647) putative protein [Arabidopsis thaliana]		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117240	Strand	+
Start	6313	End	13743
Name	OJ000303_14.0419.C11.o5.gp	Method	AAT/GAP
Start	10843	End	11775
GI	2443104	Score	703
Exons	10843..11034, 11159..11297, 11726..11775		
GI Descrip.	3212867 7.0e-35 (AC004005) unknown protein [Arabidopsis thaliana]		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117240	Strand	+
Start	6313	End	13743
Name	OJ000303_14.0419.C11.o5.np	Method	AAT/NAP
Start	12634	End	13743
GI	7414433	Score	279
Exons	12634..12704, 13302..13743		
GI Descrip.	(AJ251646) beta-1,3 glucanase [Pisum sativum]		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117241	Strand	-
Start	1	End	903
Name	OJ000303_14.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	652
GI	7444149	Score	218
Exons	1..112, 233..299, 407..451, 584..652		
GI Descrip.	phosphomannomutase homolog F4I18.23 - Arabidopsis thaliana gi 3386615 gb AAC28545.1 (AC004665) putative phosphomannomutase [Arabidopsis thaliana]		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117241	Strand	-
Start	1	End	903
Name	OJ000303_14.0419.C11.o1.gp	Method	AAT/GAP
Start	213	End	903
GI	702011	Score	755
Exons	213..296, 404..451, 584..903		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117242	Strand	-

Start	3071	End	4782
Name	OJ000303_14.0419.C11.o4.tm	Method	TBLASTX:Maize
Start	36	End	653
GI	none	Score	116
Exons	36..119, 40..120, 234..302, 238..333, 407..448, 584..640, 584..643, 585..653		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117242	Strand	-
Start	3071	End	4782
Name	OJ000303_14.0419.C11.o5.ts	Method	TBLASTX:Soybean
Start	36	End	659
GI	none	Score	78
Exons	36..119, 37..120, 234..296, 238..333, 404..451, 581..643, 582..659		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117242	Strand	-
Start	3071	End	4782
Name	OJ000303_14.0419.C11.o5.tm	Method	TBLASTX:Maize
Start	3005	End	4782
GI	none	Score	149
Exons	3005..3040, 3122..3190, 3288..3413, 3294..3416, 3296..3415, 3654..3674, 3672..3782, 3687..3779, 3688..3780, 3939..4007, 3939..4007, 4595..4678, 4596..4679, 4610..4678, 4765..4782		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117242	Strand	-
Start	3071	End	4782
Name	OJ000303_14.0419.C11.o2.gp	Method	AAT/GAP
Start	3071	End	4741
GI	LIB3434-032-P1-K1-A6	Score	983
Exons	3071..3183, 3296..3413, 3652..3778, 3941..4006, 4612..4741		
GI Descrip.	'5565983/gb AAD45283.1 6.0e-59 (AF152601) unknown [Zea mays]'		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117242	Strand	-
Start	3071	End	4782
Name	OJ000303_14.0419.C11.o2.np	Method	AAT/NAP
Start	3127	End	4678
GI	7489756	Score	463
Exons	3127..3183, 3296..3413, 3652..3778, 3941..4006, 4612..4678		
GI Descrip.	hypothetical protein - maize gi 1498055 gb AAB06331.1 (U64437) novel protein [Zea mays]		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117243	Strand	-
Start	6361	End	8249
Name	OJ000303_14.0419.C11.o2.tm	Method	TBLASTX:Maize
Start	6361	End	8249
GI	none	Score	121
Exons	6361..6447, 6370..6447, 7033..7233, 7097..7234, 7327..7425, 7332..7436, 7371..7427, 7459..7665, 7505..7669, 7508..7666, 7750..7887, 7751..7897, 7752..7889, 8029..8106, 8032..8106, 8039..8116, 8185..8244, 8193..8249		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
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Gene No.	117243	Strand	
Start	6361	End	8249
Name	OJ000303_14.0419.C11.o2.ts	Method	TBLASTX:Soybean
Start	7103	End	8243
GI	none	Score	78
Exons	7103..7237, 7506..7577, 7507..7587, 7571..7672, 7582..7668, 7745..7897, 7747..7887, 7748..7888, 8029..8106, 8032..8106, 8039..8116, 8202..8243, 8207..8242		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117244	Strand	
Start	10094	End	12400
Name	OJ000303_14.0419.C11.o3.ts	Method	TBLASTX:Soybean
Start	10094	End	10693
GI	none	Score	103
Exons	10094..10234, 10320..10409, 10322..10417, 10322..10408, 10490..10543, 10646..10693		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117244	Strand	
Start	10094	End	12400
Name	OJ000303_14.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	10490	End	11038
GI	none	Score	91
Exons	10490..10543, 10492..10542, 10646..10669, 10646..10669, 10660..11019, 10663..10908, 10664..11035, 10685..11038		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117244	Strand	
Start	10094	End	12400
Name	OJ000303_14.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	10877	End	11791
GI	none	Score	143
Exons	10877..11035, 10909..11019, 10961..11038, 11156..11299, 11156..11299, 11157..11300, 11693..11791		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117244	Strand	
Start	10094	End	12400
Name	OJ000303_14.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	10886	End	11953
GI	none	Score	134
Exons	10886..11035, 10909..11019, 10973..11038, 11155..11298, 11156..11299, 11157..11300, 11761..11781, 11885..11953, 11892..11951		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117244	Strand	
Start	10094	End	12400
Name	OJ000303_14.0419.C11.o3.tm	Method	TBLASTX:Maize
Start	11729	End	12344
GI	none	Score	51
Exons	11729..11764, 11729..11764, 11877..11927, 11885..11926, 11921..11962, 11922..11963, 12014..12085, 12047..12094, 12049..12096, 12051..12203, 12094..12237, 12098..12235, 12168..12344, 12175..12336		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117244	Strand	
Start	10094	End	12400
Name	OJ000303_14.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	12047	End	12400
GI	none	Score	206
Exons	12047..12184, 12048..12191, 12049..12237, 12175..12270, 12179..12256, 12193..12294, 12341..12364, 12365..12400		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117245	Strand	
Start	13270	End	13740
Name	OJ000303_14.0419.C11.o4.ts	Method	TBLASTX:Soybean
Start	13270	End	13740
GI	none	Score	187
Exons	13270..13485, 13306..13479, 13546..13671, 13561..13644, 13705..13740		

Seq. No.	56019	Seq. ID	OJ000303_14.0419.C11
Gene No.	117245	Strand	
Start	13270	End	13740
Name	OJ000303_14.0419.C11.o2.tc	Method	TBLASTX:Cress
Start	13309	End	13665
GI	none	Score	40
Exons	13309..13350, 13342..13485, 13546..13665		

Seq. No.	56020	Seq. ID	OJ000303_14.0419.C12
Gene No.	117246	Strand	+
Start	1	End	1109
Name	OJ000303_14.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	766
GI	7414433	Score	588
Exons	1..766		
GI Descrip.	(AJ251646) beta-1,3 glucanase [Pisum sativum]		

Seq. No.	56020	Seq. ID	OJ000303_14.0419.C12
Gene No.	117246	Strand	+
Start	1	End	1109
Name	OJ000303_14.0419.C12.o1.gs	Method	GENSCAN
Start	101	End	1109
GI	none	Score	.63
Exons	101..746, 1084..1109		

Seq. No.	56020	Seq. ID	OJ000303_14.0419.C12
Gene No.	117247	Strand	+
Start	1947	End	7062
Name	OJ000303_14.0419.C12.o1.gp	Method	AAT/GAP
Start	1890	End	2314
GI	44725_1.R1084	Score	806
Exons	1890..2314		
GI Descrip.	'3212867 7.0e-35 (AC004005) unknown protein [Arabidopsis thaliana]'		

Seq. No.	56020	Seq. ID	OJ000303_14.0419.C12
Gene No.	117247	Strand	+
Start	1947	End	7062
Name	OJ000303_14.0419.C12.o2.gs	Method	GENSCAN

Start	1947	End	7062
GI	none	Score	.7
Exons	1947..2386, 3004..3109, 3292..3398, 3665..3756, 3980..4014, 4271..4387, 6452..6571, 7051..7062		

Seq. No.	56020	Seq. ID	OJ000303_14.0419.C12
Gene No.	117247	Strand	+
Start	1947	End	7062
Name	OJ000303_14.0419.C12.o2.np	Method	AAT/NAP
Start	1950	End	4447
GI	7484790	Score	745
Exons	1950..2386, 3004..3106, 3292..3395, 3665..3756, 3850..3947, 4271..4447		

GI Descrip. acyl-CoA-binding protein homolog T27E11.20 - Arabidopsis thaliana gi|4972109|emb|CAB43966.1| (AL078579) putative acyl-CoA binding protein [Arabidopsis thaliana]
gi|7269631|emb|CAB81427.1| (AL161571) putative acyl-CoA binding protein [Arabidopsis thaliana]

Seq. No.	56020	Seq. ID	OJ000303_14.0419.C12
Gene No.	117247	Strand	+
Start	1947	End	7062
Name	OJ000303_14.0419.C12.o2.gp	Method	AAT/GAP
Start	3890	End	4788
GI	3762888	Score	1073
Exons	3890..3947, 4271..4788		

Seq. No.	56020	Seq. ID	OJ000303_14.0419.C12
Gene No.	117248	Strand	-
Start	7574	End	8539
Name	OJ000303_14.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	2	End	370
GI	none	Score	73
Exons	2..82, 3..83, 74..370, 74..370		

Seq. No.	56020	Seq. ID	OJ000303_14.0419.C12
Gene No.	117248	Strand	-
Start	7574	End	8539
Name	OJ000303_14.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	86	End	748
GI	none	Score	300
Exons	86..463, 187..420, 512..583, 583..669, 584..748		

Seq. No.	56020	Seq. ID	OJ000303_14.0419.C12
Gene No.	117248	Strand	-
Start	7574	End	8539
Name	OJ000303_14.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	89	End	750
GI	none	Score	128
Exons	89..199, 277..450, 278..427, 514..582, 515..583, 583..750, 584..748		

Seq. No.	56020	Seq. ID	OJ000303_14.0419.C12
Gene No.	117248	Strand	-
Start	7574	End	8539
Name	OJ000303_14.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	182	End	427

GI none
Exons 182..427, 185..427

Score 275

Seq. No. 56020
Gene No. 117248
Start 7574
Name OJ000303_14.0419.C12.o2.tw
Start 500
GI none
Exons 500..577, 580..747, 581..745

Seq. ID OJ000303_14.0419.C12
Strand -
End 8539
Method TBLASTX:Wheat
End 747
Score 67

Seq. No. 56020
Gene No. 117248
Start 7574
Name OJ000303_14.0419.C12.o3.tm
Start 511
GI none
Exons 511..666, 512..745, 685..750

Seq. ID OJ000303_14.0419.C12
Strand -
End 8539
Method TBLASTX:Maize
End 750
Score 218

Seq. No. 56020
Gene No. 117248
Start 7574
Name OJ000303_14.0419.C12.o2.tm
Start 1943
GI none
Exons 1943..2062, 1947..2069, 2015..2071, 2199..2387, 2225..2389, 2999..3112, 3005..3106, 3284..3376, 3291..3383, 3291..3383, 3292..3384, 3657..3755, 3671..3760, 3671..3754, 3818..3943, 3843..3947, 3847..3948, 3857..3949, 4263..4484, 4268..4486, 4269..4445, 4270..4446, 4505..4531

Seq. ID OJ000303_14.0419.C12
Strand -
End 8539
Method TBLASTX:Maize
End 4531
Score 180

Seq. No. 56020
Gene No. 117248
Start 7574
Name OJ000303_14.0419.C12.o2.tc
Start 1955
GI none
Exons 1955..2056, 1956..2069, 2199..2303, 2277..2387, 2294..2386, 3002..3076, 3003..3092, 3007..3099, 3008..3106, 3340..3381, 3848..3943, 3849..3947, 4256..4387, 4262..4423, 4268..4423, 4270..4461

Seq. ID OJ000303_14.0419.C12
Strand -
End 8539
Method TBLASTX:Cress
End 4461
Score 127

Seq. No. 56020
Gene No. 117248
Start 7574
Name OJ000303_14.0419.C12.o3.gs
Start 7574
GI none
Exons 7574..8225, 846..8539

Seq. ID OJ000303_14.0419.C12
Strand -
End 8539
Method GENSCAN
End 8539
Score 96

Seq. No. 56021
Gene No. 117249
Start 1329
Name OJ000303_14.0419.C13.o1.gp
Start 1329
GI 38012_1.R1084
Exons 1329..1409

Seq. ID OJ000303_14.0419.C13
Strand +
End 1409
Method AAT/GAP
End 1409
Score 109

GI Descrip. '4097947/gb|U72255|OSU72255 2.0e-23 Oryza sativa
beta-1,3-glucanase precursor (Gns9) gene, complete cds'

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117250	Strand	+
Start	5981	End	16834
Name	OJ000303_14.0419.C13.o1.np	Method	AAT/NAP
Start	5981	End	14251
GI	7021723	Score	2431
Exons	5981..6046, 6083..6201, 11159..11517, 11638..11783, 12109..12292, 12405..12478, 12552..12665, 12854..13210, 13304..13564, 13734..13968, 14010..14251		

GI Descrip. (AC024081) hypothetical protein [Arabidopsis thaliana]

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117250	Strand	+
Start	5981	End	16834
Name	OJ000303_14.0419.C13.o2.gs	Method	GENSCAN
Start	5981	End	6758
GI	none	Score	.78
Exons	5981..6201, 6665..6758		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117250	Strand	+
Start	5981	End	16834
Name	OJ000303_14.0419.C13.o3.gp	Method	AAT/GAP
Start	7434	End	7886
GI	2799908	Score	814
Exons	7434..7886		

GI Descrip. 2149018/gb|U70541|OSU70541 1.0e-23 Oryza sativa putative
ADP-glucose pyrophosphorylase subunit SH2 and putative
NADPH-dependent reductase A1 genes, complete cds

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117250	Strand	+
Start	5981	End	16834
Name	OJ000303_14.0419.C13.o4.gp	Method	AAT/GAP
Start	9103	End	9467
GI	62565_1.R1084	Score	140
Exons	9103..9188, 9442..9467		

GI Descrip. '2149018/gb|U70541|OSU70541 1.0e-23 Oryza sativa putative
ADP-glucose pyrophosphorylase subunit SH2 and putative
NADPH-dependent reductase A1 genes, complete cds'

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117250	Strand	+
Start	5981	End	16834
Name	OJ000303_14.0419.C13.o3.gs	Method	GENSCAN
Start	10568	End	14774
GI	none	Score	.86
Exons	10568..10689, 11159..11517, 11638..11783, 12109..12292, 12405..12478, 12552..12665, 12854..13210, 13304..13564, 13734..13961, 14069..14228, 14668..14774		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117250	Strand	+
Start	5981	End	16834

Name	OJ000303_14.0419.C13.o5.gp	Method	AAT/GAP
Start	12552	End	13118
GI	4880896	Score	640
Exons	12552..12665, 12854..13118		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117250	Strand	+
Start	5981	End	16834
Name	OJ000303_14.0419.C13.o6.gp	Method	AAT/GAP
Start	13114	End	13577
GI	LIB3433-017-Q6-K1-A10	Score	629
Exons	13114..13210, 13304..13577		
GI Descrip.	'4176420/dbj BAA37167 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117250	Strand	+
Start	5981	End	16834
Name	OJ000303_14.0419.C13.o7.gp	Method	AAT/GAP
Start	13694	End	14241
GI	uC-osflcyp037e01b1	Score	686
Exons	13694..13961, 14069..14241		
GI Descrip.	'3986770 2.0e-14 (AF109906) NG22 [Mus musculus]'		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117250	Strand	+
Start	5981	End	16834
Name	OJ000303_14.0419.C13.o2.np	Method	AAT/NAP
Start	14665	End	16834
GI	7484790	Score	147
Exons	14665..14995, 15268..15365, 16815..16834		
GI Descrip.	acyl-CoA-binding protein homolog T27E11.20 - Arabidopsis thaliana gi 4972109 emb CAB43966.1 (AL078579) putative acyl-CoA binding protein [Arabidopsis thaliana] gi 7269631 emb CAB81427.1 (AL161571) putative acyl-CoA binding protein [Arabidopsis thaliana]		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117251	Strand	+
Start	21336	End	25378
Name	OJ000303_14.0419.C13.o4.np	Method	AAT/NAP
Start	21336	End	25378
GI	7021723	Score	1970
Exons	21336..21375, 21412..21556, 22482..22840, 22974..23119, 23446..23629, 23742..23815, 23889..24002, 24169..24525, 24619..24879, 25058..25378		
GI Descrip.	(AC024081) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117251	Strand	+
Start	21336	End	25378
Name	OJ000303_14.0419.C13.o5.gs	Method	GENSCAN
Start	21336	End	24879
GI	none	Score	.92
Exons	21336..21556, 22482..22840, 22974..23119, 23446..23629, 23742..23815, 23889..24002, 24169..24525, 24619..24879		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117251	Strand	+
Start	21336	End	25378
Name	OJ000303_14.0419.C13.o5.np	Method	AAT/NAP
Start	22480	End	25378
GI	7021723	Score	1759
Exons	22480..22840, 22974..23119, 23446..23629, 23742..23815, 23889..24002, 24169..24525, 24619..24879, 25058..25378		
GI Descrip.	(AC024081) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117251	Strand	+
Start	21336	End	25378
Name	OJ000303_14.0419.C13.o7.np	Method	AAT/NAP
Start	22480	End	25378
GI	7021723	Score	1760
Exons	22480..22840, 22974..23119, 23446..23629, 23742..23815, 23889..24002, 24169..24525, 24619..24879, 25058..25378		
GI Descrip.	(AC024081) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117251	Strand	+
Start	21336	End	25378
Name	OJ000303_14.0419.C13.o6.np	Method	AAT/NAP
Start	22482	End	25378
GI	7021723	Score	1767
Exons	22482..22840, 22974..23119, 23446..23629, 23742..23815, 23889..24002, 24169..24525, 24619..24879, 25058..25378		
GI Descrip.	(AC024081) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117251	Strand	+
Start	21336	End	25378
Name	OJ000303_14.0419.C13.o8.gp	Method	AAT/GAP
Start	23532	End	24433
GI	4880896	Score	989
Exons	23532..23629, 23742..23815, 23889..24002, 24169..24433		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117251	Strand	+
Start	21336	End	25378
Name	OJ000303_14.0419.C13.o9.gp	Method	AAT/GAP
Start	24429	End	24892
GI	LIB3433-017-Q6-K1-A10	Score	629
Exons	24429..24525, 24619..24892		
GI Descrip.	'4176420/dbj BAA37167 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117252	Strand	-
Start	1757	End	5167
Name	OJ000303_14.0419.C13.o1.gs	Method	GENSCAN
Start	1757	End	5167
GI	none	Score	.64
Exons	1757..2421, 2646..2694, 4099..4545, 5105..5167		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
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Gene No.	117253	Strand	-
Start	15224	End	24888
Name	OJ000303_14.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	6086	End	22719
GI	none	Score	127
Exons	6086..6193, 6086..6196, 11156..11395, 11157..11396, 11175..11396, 21447..21557, 21477..21551, 22479..22718, 22480..22719		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117253	Strand	-
Start	15224	End	24888
Name	OJ000303_14.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	11152	End	23034
GI	none	Score	531
Exons	11152..11517, 11157..11516, 11157..11522, 11158..11544, 11634..11696, 11636..11698, 11639..11698, 22475..22840, 22480..22839, 22480..22845, 22970..23032, 22972..23034		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117253	Strand	-
Start	15224	End	24888
Name	OJ000303_14.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	11170	End	23083
GI	none	Score	101
Exons	11170..11529, 11171..11272, 11181..11516, 11182..11541, 11617..11745, 11634..11747, 11636..11749, 22493..22852, 22494..22595, 22504..22839, 22970..23083, 22972..23079, 22973..23080		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117253	Strand	-
Start	15224	End	24888
Name	OJ000303_14.0419.C13.o4.tm	Method	TBLASTX:Maize
Start	12049	End	23924
GI	none	Score	305
Exons	12049..12291, 12108..12290, 12403..12486, 12404..12478, 23386..23628, 23445..23627, 23740..23823, 23741..23815, 23889..23924		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117253	Strand	-
Start	15224	End	24888
Name	OJ000303_14.0419.C13.o3.ts	Method	TBLASTX:Soybean
Start	12847	End	24315
GI	none	Score	217
Exons	12847..12999, 12848..13000, 23949..24005, 24162..24314, 24163..24315		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117253	Strand	-
Start	15224	End	24888
Name	OJ000303_14.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	12852	End	24888
GI	none	Score	304
Exons	12852..13208, 12859..13209, 12860..13210, 13297..13572, 13298..13573, 13728..13934, 13733..13966, 13898..13963,		

14042..14269, 14042..14275, 14315..14380, 24174..24524,
24175..24525, 24612..24887, 24613..24888

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117253	Strand	-
Start	15224	End	24888
Name	OJ000303_14.0419.C13.o2.ts	Method	TBLASTX:Soybean
Start	13845	End	14274
GI	5058478	Score	148
Exons	13845..13934, 13847..13960, 13861..13962, 13892..13963, 14075..14260, 14075..14242, 14077..14274		
GI Descrip.	-		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117253	Strand	-
Start	15224	End	24888
Name	OJ000303_14.0419.C13.o5.tm	Method	TBLASTX:Maize
Start	14666	End	15363
GI	none	Score	168
Exons	14666..14773, 14670..14771, 14884..14976, 14891..14983, 14892..14984, 15260..15358, 15267..15362, 15268..15363, 15274..15357		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117253	Strand	-
Start	15224	End	24888
Name	OJ000303_14.0419.C13.o4.gs	Method	GENSCAN
Start	15224	End	18824
GI	none	Score	.48
Exons	15224..15392, 16249..16382, 16488..16581, 16672..16747, 18099..18460, 18553..18824		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117253	Strand	-
Start	15224	End	24888
Name	OJ000303_14.0419.C13.o3.np	Method	AAT/NAP
Start	15640	End	23322
GI	6063557	Score	175
Exons	15640..15735, 19332..19437, 19689..19866, 23244..23322		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	56021	Seq. ID	OJ000303_14.0419.C13
Gene No.	117253	Strand	-
Start	15224	End	24888
Name	OJ000303_14.0419.C13.o3.tm	Method	TBLASTX:Maize
Start	16290	End	18636
GI	none	Score	65
Exons	16290..16382, 16292..16399, 16319..16384, 16487..16576, 16488..16580, 16488..16583, 16489..16584, 16674..16730, 16767..16835, 16897..17016, 16947..17024, 17121..17228, 17125..17229, 18241..18378, 18244..18321, 18361..18462, 18374..18460, 18550..18582, 18558..18581, 18601..18636		

Seq. No.	56022	Seq. ID	OJ000303_14.0419.C16
Gene No.	117254	Strand	-
Start	427	End	541
Name	OJ000303_14.0419.C16.o1.gs	Method	GENSCAN

Start 427
GI none
Exons 427..541

End 541
Score .63

Seq. No. 56023
Gene No. 117255
Start 23
Name OJ000303_14.0419.C19.o1.gs
Start 23
GI none
Exons 23..155

Seq. ID OJ000303_14.0419.C19
Strand -
End 155
Method GENSCAN
End 155
Score .57

Seq. No. 56024
Gene No. 117256
Start 245
Name OJ000303_14.0419.C28.o1.gs
Start 245
GI none
Exons 245..526

Seq. ID OJ000303_14.0419.C28
Strand +
End 526
Method GENSCAN
End 526
Score .73

Seq. No. 56025
Gene No. 117257
Start 582
Name OJ000323_15.0419.C1.o1.gs
Start 582
GI none
Exons 582..662

Seq. ID OJ000323_15.0419.C1
Strand -
End 662
Method GENSCAN
End 662
Score .83

Seq. No. 56026
Gene No. 117258
Start 1998
Name OJ000323_15.0419.C2.o1.gp
Start 1998
GI 2798252
Exons 1998..2119, 2231..2350

Seq. ID OJ000323_15.0419.C2
Strand +
End 4487
Method AAT/GAP
End 2350
Score 364

Seq. No. 56026
Gene No. 117258
Start 1998
Name OJ000323_15.0419.C2.o1.gs
Start 2056
GI none
Exons 2056..2119, 2388..2540, 2642..3514, 3626..3702, 4410..4487

Seq. ID OJ000323_15.0419.C2
Strand +
End 4487
Method GENSCAN
End 4487
Score .89

Seq. No. 56026
Gene No. 117259
Start 6107
Name OJ000323_15.0419.C2.o1.np
Start 6107
GI 7076758
Exons 6107..7335
GI Descrip. (AL138658) putative protein [Arabidopsis thaliana]

Seq. ID OJ000323_15.0419.C2
Strand +
End 7335
Method AAT/NAP
End 7335
Score 1301

Seq. No. 56026
Gene No. 117260
Start 11366
Name OJ000323_15.0419.C2.o4.gs

Seq. ID OJ000323_15.0419.C2
Strand +
End 14296
Method GENSCAN

Start	11366	End	13917
GI	none	Score	.52
Exons	11366..11394, 11603..11752, 11853..11958, 12449..12496, 12608..12667, 12741..12910, 13878..13917		

Seq. No.	56026	Seq. ID	OJ000323_15.0419.C2
Gene No.	117260	Strand	+
Start	11366	End	14296
Name	OJ000323_15.0419.C2.o2.np	Method	AAT/NAP
Start	12294	End	14296
GI	3122914	Score	545
Exons	12294..12496, 12608..12676, 12738..12910, 13052..13124, 13284..13349, 13440..13524, 13706..13783, 13878..13961, 14273..14296		

GI Descrip. VALYL-TRNA SYNTHETASE (VALINE--TRNA LIGASE) (VALRS)
gi|1890130|gb|AAB49704.1| (U89986) valyl tRNA synthetase
[Arabidopsis thaliana]

Seq. No.	56026	Seq. ID	OJ000323_15.0419.C2
Gene No.	117261	Strand	-
Start	8814	End	10308
Name	OJ000323_15.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	2874	End	3321
GI	none	Score	133
Exons	2874..2912, 2909..2944, 2989..3120, 2997..3119, 3184..3321, 3210..3260, 3256..3321		

Seq. No.	56026	Seq. ID	OJ000323_15.0419.C2
Gene No.	117261	Strand	-
Start	8814	End	10308
Name	OJ000323_15.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	6111	End	6435
GI	none	Score	278
Exons	6111..6251, 6112..6435, 6295..6426		

Seq. No.	56026	Seq. ID	OJ000323_15.0419.C2
Gene No.	117261	Strand	-
Start	8814	End	10308
Name	OJ000323_15.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	6370	End	7293
GI	none	Score	217
Exons	6370..7104, 6556..7293, 6658..6852, 6661..7206, 6850..7293, 6858..7202, 6912..7196, 7009..7176, 7099..7281		

Seq. No.	56026	Seq. ID	OJ000323_15.0419.C2
Gene No.	117261	Strand	-
Start	8814	End	10308
Name	OJ000323_15.0419.C2.o2.tc	Method	TBLASTX:Cress
Start	6436	End	7293
GI	none	Score	40
Exons	6436..6597, 6463..6861, 6637..7215, 6661..7008, 6838..7281, 6928..7293		

Seq. No.	56026	Seq. ID	OJ000323_15.0419.C2
Gene No.	117261	Strand	-
Start	8814	End	10308
Name	OJ000323_15.0419.C2.o1.tm	Method	TBLASTX:Maize

Start	6517	End	7293
GI	none	Score	238
Exons	6517..7233, 6823..7293, 6895..7293, 7024..7290		

Seq. No.	56026	Seq. ID	OJ000323_15.0419.C2
Gene No.	117261	Strand	-
Start	8814	End	10308
Name	OJ000323_15.0419.C2.o2.gp	Method	AAT/GAP
Start	8641	End	9722
GI	none	Score	980
Exons	8641..9043, 9487..9568, 9656..9722		

Seq. No.	56026	Seq. ID	OJ000323_15.0419.C2
Gene No.	117261	Strand	-
Start	8814	End	10308
Name	OJ000323_15.0419.C2.o3.gs	Method	GENSCAN
Start	8814	End	10308
GI	none	Score	.54
Exons	8814..9043, 9487..9671, 10190..10308		

Seq. No.	56026	Seq. ID	OJ000323_15.0419.C2
Gene No.	117262	Strand	-
Start	12767	End	13961
Name	OJ000323_15.0419.C2.o3.tc	Method	TBLASTX:Cress
Start	12767	End	13961
GI	none	Score	73
Exons	12767..12886, 12804..12914, 12808..12885, 12845..12913, 13008..13133, 13052..13132, 13286..13357, 13290..13349, 13293..13358, 13431..13496, 13434..13472, 13474..13527, 13474..13524, 13476..13526, 13643..13681, 13703..13786, 13705..13785, 13875..13961, 13877..13960		

Seq. No.	56026	Seq. ID	OJ000323_15.0419.C2
Gene No.	117262	Strand	-
Start	12767	End	13961
Name	OJ000323_15.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	12769	End	13961
GI	none	Score	150
Exons	12769..12912, 12795..12914, 13052..13132, 13053..13133, 13275..13349, 13286..13357, 13290..13349, 13431..13469, 13434..13472, 13439..13483, 13453..13524, 13474..13527, 13476..13526, 13481..13546, 13643..13681, 13703..13786, 13705..13785, 13871..13960, 13875..13961		

Seq. No.	56026	Seq. ID	OJ000323_15.0419.C2
Gene No.	117262	Strand	-
Start	12767	End	13961
Name	OJ000323_15.0419.C2.o3.tm	Method	TBLASTX:Maize
Start	13274	End	13937
GI	none	Score	100
Exons	13274..13372, 13290..13349, 13434..13472, 13473..13526, 13474..13527, 13703..13789, 13705..13785, 13871..13936, 13875..13937		

Seq. No.	56027	Seq. ID	OJ000323_15.0419.C6
Gene No.	117263	Strand	+
Start	3421	End	3467

Name	OJ000323_15.0419.C6.o2.gs	Method	GENSCAN
Start	3421	End	3467
GI	none	Score	.87
Exons	3421..3467		

Seq. No.	56027	Seq. ID	OJ000323_15.0419.C6
Gene No.	117264	Strand	+
Start	3368	End	3475
Name	OJ000323_15.0419.C6.o1.gp	Method	AAT/GAP
Start	3368	End	3475
GI	2280840	Score	216
Exons	3368..3475		

Seq. No.	56028	Seq. ID	OJ000323_15.0419.C7
Gene No.	117265	Strand	+
Start	762	End	1886
Name	OJ000323_15.0419.C7.o1.gs	Method	GENSCAN
Start	762	End	1886
GI	none	Score	.59
Exons	762..767, 1764..1886		

Seq. No.	56028	Seq. ID	OJ000323_15.0419.C7
Gene No.	117266	Strand	+
Start	4206	End	4800
Name	OJ000323_15.0419.C7.o1.gp	Method	AAT/GAP
Start	4206	End	4800
GI	76739_1.R1084	Score	1155
Exons	4206..4800		
GI Descrip.	'1041815 2.0e-14 (U16721) lipid transfer protein [Oryza sativa]'		

Seq. No.	56028	Seq. ID	OJ000323_15.0419.C7
Gene No.	117266	Strand	+
Start	4206	End	4800
Name	OJ000323_15.0419.C7.o1.np	Method	AAT/NAP
Start	4242	End	4553
GI	128377	Score	247
Exons	4242..4553		
GI Descrip.	PROBABLE NONSPECIFIC LIPID-TRANSFER PROTEIN PRECURSOR (LTP) (ALEURON-SPECIFIC 10 KD PROTEIN) (B-FABP) gi 82343 pir S04126 probable phospholipid transfer protein precursor, aleurone-specific - barley gi 18893 emb CAA33329.1 (X15257) aleurone specific protein [Hordeum vulgare] gi 19041 emb CAA49448.1 (X69793) lipid transfer protein [Hordeum vulgare] gi 19043 emb CA		

Seq. No.	56028	Seq. ID	OJ000323_15.0419.C7
Gene No.	117267	Strand	-
Start	2254	End	3922
Name	OJ000323_15.0419.C7.o2.gs	Method	GENSCAN
Start	2254	End	3922
GI	none	Score	.53
Exons	2254..2415, 3260..3306, 3706..3922		

Seq. No.	56028	Seq. ID	OJ000323_15.0419.C7
Gene No.	117268	Strand	-
Start	7910	End	10104
Name	OJ000323_15.0419.C7.o1.tm	Method	TBLASTX:Maize

Start	4346	End	4565
GI	none	Score	101
Exons	4346..4438, 4347..4454, 4443..4565, 4445..4555		

Seq. No.	56028	Seq. ID	OJ000323_15.0419.C7
Gene No.	117268	Strand	-
Start	7910	End	10104
Name	OJ000323_15.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	4349	End	4559
GI	none	Score	93
Exons	4349..4441, 4350..4442, 4443..4559, 4448..4480		

Seq. No.	56028	Seq. ID	OJ000323_15.0419.C7
Gene No.	117268	Strand	-
Start	7910	End	10104
Name	OJ000323_15.0419.C7.o2.np	Method	AAT/NAP
Start	7910	End	10104
GI	7106514	Score	50
Exons	7910..8036, 10082..10104		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	56028	Seq. ID	OJ000323_15.0419.C7
Gene No.	117268	Strand	-
Start	7910	End	10104
Name	OJ000323_15.0419.C7.o4.gs	Method	GENSCAN
Start	9645	End	9771
GI	none	Score	.72
Exons	9645..9771		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117269	Strand	+
Start	160	End	3593
Name	OJ000323_15.0419.C8.o1.gs	Method	GENSCAN
Start	160	End	3593
GI	none	Score	.64
Exons	160..246, 425..560, 1078..3593		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117269	Strand	+
Start	160	End	3593
Name	OJ000323_15.0419.C8.o1.np	Method	AAT/NAP
Start	426	End	3590
GI	7228457	Score	4809
Exons	426..700, 823..1973, 2040..3590		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117270	Strand	+
Start	3753	End	4215
Name	OJ000323_15.0419.C8.o1.gp	Method	AAT/GAP
Start	3753	End	4215
GI	2428323	Score	843
Exons	3753..4215		
GI Descrip.	5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117271	Strand	+
Start	12402	End	13140
Name	OJ000323_15.0419.C8.o5.gs	Method	GENSCAN
Start	12402	End	13140
GI	none	Score	.45
Exons	12402..12554, 12655..12918, 12944..13035, 13044..13140		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117272	Strand	+
Start	13684	End	13986
Name	OJ000323_15.0419.C8.o6.gs	Method	GENSCAN
Start	13684	End	13986
GI	none	Score	.99
Exons	13684..13986		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117272	Strand	+
Start	13684	End	13986
Name	OJ000323_15.0419.C8.o4.np	Method	AAT/NAP
Start	13696	End	13986
GI	7489543	Score	221
Exons	13696..13986		
GI Descrip.	probable lipid transfer protein - rice gi 1041815 gb AAC50030.1 (U16721) lipid transfer protein [Oryza sativa]		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117273	Strand	+
Start	14343	End	14922
Name	OJ000323_15.0419.C8.o5.np	Method	AAT/NAP
Start	14343	End	14922
GI	7523517	Score	234
Exons	14343..14647, 14798..14922		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117274	Strand	+
Start	17506	End	17613
Name	OJ000323_15.0419.C8.o8.gs	Method	GENSCAN
Start	17506	End	17613
GI	none	Score	.82
Exons	17506..17613		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117275	Strand	-
Start	4223	End	9194
Name	OJ000323_15.0419.C8.o2.gs	Method	GENSCAN
Start	4223	End	7520
GI	none	Score	.99
Exons	4223..6167, 6259..7520		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117275	Strand	-
Start	4223	End	9194
Name	OJ000323_15.0419.C8.o2.np	Method	AAT/NAP
Start	4226	End	7520

GI	5803259	Score	5139
Exons	4226..5896, 5939..6167, 6259..7520		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117275	Strand	-
Start	4223	End	9194
Name	OJ000323_15.0419.C8.o3.np	Method	AAT/NAP
Start	6714	End	9194
GI	5922623	Score	210
Exons	6714..6750, 8335..8410, 8578..8730, 9110..9194		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa]		
	gi 6016856 dbj BAA85199.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117275	Strand	-
Start	4223	End	9194
Name	OJ000323_15.0419.C8.o3.gs	Method	GENSCAN
Start	7901	End	8483
GI	none	Score	.4
Exons	7901..8016, 8053..8099, 8335..8410, 8429..8483		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117276	Strand	-
Start	14375	End	14845
Name	OJ000323_15.0419.C8.o7.gs	Method	GENSCAN
Start	14375	End	14845
GI	none	Score	.5
Exons	14375..14590, 14810..14845		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117277	Strand	-
Start	17542	End	17661
Name	OJ000323_15.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	428	End	771
GI	none	Score	.261
Exons	428..667, 430..666, 661..771		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117277	Strand	-
Start	17542	End	17661
Name	OJ000323_15.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	445	End	864
GI	none	Score	.274
Exons	445..666, 446..676, 548..667, 658..864, 684..857		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117277	Strand	-
Start	17542	End	17661
Name	OJ000323_15.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	524	End	894
GI	none	Score	.154
Exons	524..667, 541..666, 664..894		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117277	Strand	-

Start	17542	End	17661
Name	OJ000323_15.0419.C8.o3.tw	Method	TBLASTX:Wheat
Start	1518	End	1952
GI	none	Score	236
Exons	1518..1769, 1518..1748, 1583..1759, 1803..1952, 1812..1949, 1814..1951		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117277	Strand	-
Start	17542	End	17661
Name	OJ000323_15.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	1641	End	2189
GI	5666795	Score	68
Exons	1641..1739, 1815..1952, 2007..2189		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117277	Strand	-
Start	17542	End	17661
Name	OJ000323_15.0419.C8.o6.tw	Method	TBLASTX:Wheat
Start	1955	End	2267
GI	none	Score	197
Exons	1955..2131, 2007..2267		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117277	Strand	-
Start	17542	End	17661
Name	OJ000323_15.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	2460	End	2783
GI	none	Score	364
Exons	2460..2783, 2489..2770		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117277	Strand	-
Start	17542	End	17661
Name	OJ000323_15.0419.C8.o2.tw	Method	TBLASTX:Wheat
Start	2597	End	2978
GI	none	Score	375
Exons	2597..2653, 2598..2978, 2699..2947		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117277	Strand	-
Start	17542	End	17661
Name	OJ000323_15.0419.C8.o4.tw	Method	TBLASTX:Wheat
Start	2979	End	3581
GI	none	Score	257
Exons	2979..3275, 2983..3054, 2984..3082, 3119..3262, 3455..3577, 3456..3581		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117277	Strand	-
Start	17542	End	17661
Name	OJ000323_15.0419.C8.o4.tm	Method	TBLASTX:Maize
Start	3450	End	3590
GI	none	Score	183
Exons	3450..3590, 3455..3589		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117277	Strand	-
Start	17542	End	17661
Name	OJ000323_15.0419.C8.o3.tm	Method	TBLASTX:Maize
Start	13776	End	17661
GI	none	Score	104
Exons	13776..13871, 13777..13884, 13873..13992, 13875..13913, 13959..14027, 17545..17661, 17546..17659		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117277	Strand	-
Start	17542	End	17661
Name	OJ000323_15.0419.C8.o5.tw	Method	TBLASTX:Wheat
Start	13777	End	17661
GI	none	Score	106
Exons	13777..13884, 13777..13857, 13879..13986, 17545..17661, 17552..17650		

Seq. No.	56029	Seq. ID	OJ000323_15.0419.C8
Gene No.	117277	Strand	-
Start	17542	End	17661
Name	OJ000323_15.0419.C8.o6.np	Method	AAT/NAP
Start	17542	End	17661
GI	7489543	Score	154
Exons	17542..17661		
GI Descrip.	probable lipid transfer protein - rice gi 1041815 gb AAC50030.1 (U16721) lipid transfer protein [Oryza sativa]		

Seq. No.	56030	Seq. ID	OJ000323_15.0419.C9
Gene No.	117278	Strand	-
Start	64	End	780
Name	OJ000323_15.0419.C9.o1.gs	Method	GENSCAN
Start	64	End	780
GI	none	Score	.71
Exons	64..279, 730..780		

Seq. No.	56031	Seq. ID	OJ000323_15.0419.C10
Gene No.	117279	Strand	+
Start	1	End	8279
Name	OJ000323_15.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	2812
GI	7527726	Score	1651
Exons	1..434, 690..941, 1022..1519, 1802..1875, 2010..2161, 2398..2527, 2641..2812		
GI Descrip.	(AC010657) T5E21.11 [Arabidopsis thaliana]		

Seq. No.	56031	Seq. ID	OJ000323_15.0419.C10
Gene No.	117279	Strand	+
Start	1	End	8279
Name	OJ000323_15.0419.C10.o1.gs	Method	GENSCAN
Start	304	End	8279
GI	none	Score	.65
Exons	304..434, 690..941, 1022..1519, 1802..1899, 2043..2142, 2382..2527, 2641..2774, 3625..3876, 4082..4200, 5951..6034, 6206..7233, 7634..8279		

Seq. No.	56031	Seq. ID	OJ000323_15.0419.C10
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Gene No.	117279	Strand	+
Start	1	End	8279
Name	OJ000323_15.0419.C10.o2.np	Method	AAT/NAP
Start	6316	End	7238
GI	6907106	Score	448
Exons	6316..6976, 7051..7238		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56031	Seq. ID	OJ000323_15.0419.C10
Gene No.	117280	Strand	+
Start	10041	End	13446
Name	OJ000323_15.0419.C10.o2.gs	Method	GENSCAN
Start	10041	End	13446
GI	none	Score	.76
Exons	10041..10297, 10658..10727, 11157..11333, 11354..11647, 11940..11981, 12553..12732, 12985..13152, 13237..13446		

Seq. No.	56031	Seq. ID	OJ000323_15.0419.C10
Gene No.	117280	Strand	+
Start	10041	End	13446
Name	OJ000323_15.0419.C10.o1.gp	Method	AAT/GAP
Start	12572	End	13074
GI	none	Score	438
Exons	12572..12732, 12985..13074		

Seq. No.	56031	Seq. ID	OJ000323_15.0419.C10
Gene No.	117281	Strand	+
Start	13855	End	14249
Name	OJ000323_15.0419.C10.o2.gp	Method	AAT/GAP
Start	13855	End	14249
GI	none	Score	651
Exons	13855..14249		

Seq. No.	56031	Seq. ID	OJ000323_15.0419.C10
Gene No.	117282	Strand	-
Start	14053	End	14283
Name	OJ000323_15.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	26	End	2733
GI	none	Score	562
Exons	26..436, 30..443, 684..941, 689..934, 1004..1324, 1004..1186, 1018..1323, 1339..1509, 1346..1519, 1799..1876, 1922..1948, 2406..2528, 2647..2733		

Seq. No.	56031	Seq. ID	OJ000323_15.0419.C10
Gene No.	117282	Strand	-
Start	14053	End	14283
Name	OJ000323_15.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	69	End	2792
GI	none	Score	447
Exons	69..437, 69..434, 687..941, 688..936, 689..937, 1004..1324, 1020..1322, 1021..1323, 1319..1519, 1321..1515, 1322..1522, 1796..1897, 1799..1900, 1800..1913, 2037..2141, 2038..2145, 2376..2528, 2376..2456, 2380..2529, 2380..2535, 2644..2709, 2648..2728, 2658..2792, 2658..2783		

Seq. No.	56031	Seq. ID	OJ000323_15.0419.C10
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Gene No.	117282	Strand	-
Start	14053	End	14283
Name	OJ000323_15.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	75	End	1323
GI	none	Score	475
Exons	75..437, 76..423, 89..433, 681..734, 684..746, 692..745, 728..928, 738..941, 841..939, 1004..1318, 1004..1318, 1006..1323		

Seq. No.	56031	Seq. ID	OJ000323_15.0419.C10
Gene No.	117282	Strand	-
Start	14053	End	14283
Name	OJ000323_15.0419.C10.o4.tm	Method	TBLASTX:Maize
Start	3595	End	4163
GI	none	Score	36
Exons	3595..3627, 3614..3727, 3657..3728, 3843..3917, 3848..3907, 3898..3993, 4083..4163, 4086..4163		

Seq. No.	56031	Seq. ID	OJ000323_15.0419.C10
Gene No.	117282	Strand	-
Start	14053	End	14283
Name	OJ000323_15.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	6790	End	7139
GI	none	Score	109
Exons	6790..6903, 6793..7002, 6809..7003, 6813..6887, 6858..6914, 6968..7027, 6989..7030, 6994..7035, 6995..7033, 7082..7117, 7086..7139, 7099..7134		

Seq. No.	56031	Seq. ID	OJ000323_15.0419.C10
Gene No.	117282	Strand	-
Start	14053	End	14283
Name	OJ000323_15.0419.C10.o3.gs	Method	GENSCAN
Start	14053	End	14277
GI	none	Score	.49
Exons	14053..14277		

Seq. No.	56031	Seq. ID	OJ000323_15.0419.C10
Gene No.	117282	Strand	-
Start	14053	End	14283
Name	OJ000323_15.0419.C10.o3.tm	Method	TBLASTX:Maize
Start	14080	End	14283
GI	none	Score	139
Exons	14080..14283, 14080..14283		

Seq. No.	56032	Seq. ID	OJ000323_15.0419.C11
Gene No.	117283	Strand	+
Start	3637	End	4067
Name	OJ000323_15.0419.C11.o1.gp	Method	AAT/GAP
Start	3637	End	4067
GI	none	Score	862
Exons	3637..4067		

Seq. No.	56032	Seq. ID	OJ000323_15.0419.C11
Gene No.	117284	Strand	+
Start	4391	End	4892
Name	OJ000323_15.0419.C11.o2.gp	Method	AAT/GAP
Start	4391	End	4892
GI	none	Score	940

Exons 4391..4892

Seq. No.	56032	Seq. ID	OJ000323_15.0419.C11
Gene No.	117285	Strand	+
Start	5492	End	9319
Name	OJ000323_15.0419.C11.o2.np	Method	AAT/NAP
Start	5492	End	9319
GI	6069646	Score	404
Exons	5492..5564, 8492..9319		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	56032	Seq. ID	OJ000323_15.0419.C11
Gene No.	117286	Strand	-
Start	2829	End	6333
Name	OJ000323_15.0419.C11.o1.np	Method	AAT/NAP
Start	2829	End	6333
GI	5295951	Score	136
Exons	2829..2852, 3892..4156, 4410..4602, 6101..6333		
GI Descrip.	(AB026295) Similar to Herpesvirus papio BRRF2 homolog gene, partial cds.(U23857) [Oryza sativa]		

Seq. No.	56032	Seq. ID	OJ000323_15.0419.C11
Gene No.	117286	Strand	-
Start	2829	End	6333
Name	OJ000323_15.0419.C11.o3.gp	Method	AAT/GAP
Start	5276	End	5850
GI	1339_1.R1084	Score	1138
Exons	5276..5850		
GI Descrip.	'5295936/dbj AB026295.2 AB026295 2.0e-10 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	56032	Seq. ID	OJ000323_15.0419.C11
Gene No.	117287	Strand	-
Start	8925	End	12673
Name	OJ000323_15.0419.C11.o2.tm	Method	TBLASTX:Maize
Start	2909	End	3293
GI	none	Score	156
Exons	2909..3052, 2917..3072, 2917..3054, 3159..3263, 3161..3262, 3269..3292, 3270..3293		

Seq. No.	56032	Seq. ID	OJ000323_15.0419.C11
Gene No.	117287	Strand	-
Start	8925	End	12673
Name	OJ000323_15.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	8679	End	9215
GI	none	Score	106
Exons	8679..8843, 8768..8839, 8858..8974, 8859..9065, 9090..9215		

Seq. No.	56032	Seq. ID	OJ000323_15.0419.C11
Gene No.	117287	Strand	-
Start	8925	End	12673
Name	OJ000323_15.0419.C11.o3.np	Method	AAT/NAP
Start	8925	End	12573

GI 4321762 Score 291
 Exons 8925..8995, 10564..11190, 12486..12573
 GI Descrip. (AF061107) transcription factor MYC7E [Zea mays]

Seq. No. 56032 Seq. ID OJ000323_15.0419.C11
 Gene No. 117287 Strand -
 Start 8925 End 12673
 Name OJ000323_15.0419.C11.o3.gs Method GENSCAN
 Start 10529 End 12673
 GI none Score .49
 Exons 10529..10831, 10864..11010, 12554..12673

Seq. No. 56033 Seq. ID OJ000323_15.0419.C12
 Gene No. 117288 Strand +
 Start 640 End 825
 Name OJ000323_15.0419.C12.o1.gs Method GENSCAN
 Start 640 End 825
 GI none Score .65
 Exons 640..825

Seq. No. 56034 Seq. ID OJ000323_15.0419.C13
 Gene No. 117289 Strand +
 Start 1 End 3054
 Name OJ000323_15.0419.C13.o1.np Method AAT/NAP
 Start 1 End 2832
 GI 2852684 Score 591
 Exons 1..837, 1598..2549, 2577..2832
 GI Descrip. (AF017751) resistance protein candidate [Lactuca sativa]

Seq. No. 56034 Seq. ID OJ000323_15.0419.C13
 Gene No. 117289 Strand +
 Start 1 End 3054
 Name OJ000323_15.0419.C13.o2.np Method AAT/NAP
 Start 1 End 3054
 GI 4689223 Score 616
 Exons 1..27, 258..775, 1545..2510, 2556..3054
 GI Descrip. (AF118127) disease resistance protein I2 [Lycopersicon
 esculentum]

Seq. No. 56034 Seq. ID OJ000323_15.0419.C13
 Gene No. 117289 Strand +
 Start 1 End 3054
 Name OJ000323_15.0419.C13.o1.tm Method TBLASTX:Maize
 Start 2049 End 2445
 GI none Score 115
 Exons 2049..2207, 2050..2190, 2205..2405, 2251..2445, 2350..2445

Seq. No. 56035 Seq. ID OJ000303_15.0419.C1
 Gene No. 117290 Strand -
 Start 1 End 1593
 Name OJ000303_15.0419.C1.o1.np Method AAT/NAP
 Start 1 End 1164
 GI 7489803 Score 807
 Exons 1..1164
 GI Descrip. pol protein homolog - maize retrotransposon Opie-2
 gi|3645899|gb|AAC49502.1| (U68408) 5' end not determined
 experimentally [Zea mays]

Seq. No.	56035	Seq. ID	OJ000303_15.0419.C1
Gene No.	117290	Strand	-
Start	1	End	1593
Name	OJ000303_15.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	26	End	337
GI	none	Score	165
Exons	26..337, 33..326		

Seq. No.	56035	Seq. ID	OJ000303_15.0419.C1
Gene No.	117290	Strand	-
Start	1	End	1593
Name	OJ000303_15.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	86	End	613
GI	none	Score	236
Exons	86..613, 87..572		

Seq. No.	56035	Seq. ID	OJ000303_15.0419.C1
Gene No.	117290	Strand	-
Start	1	End	1593
Name	OJ000303_15.0419.C1.o1.gs	Method	GENSCAN
Start	130	End	1593
GI	none	Score	.72
Exons	130..1593		

Seq. No.	56035	Seq. ID	OJ000303_15.0419.C1
Gene No.	117290	Strand	-
Start	1	End	1593
Name	OJ000303_15.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	179	End	742
GI	none	Score	96
Exons	179..466, 180..281, 194..469, 506..742, 524..736		

Seq. No.	56036	Seq. ID	OJ000303_15.0419.C3
Gene No.	117291	Strand	-
Start	1	End	101
Name	OJ000303_15.0419.C3.o1.gp	Method	AAT/GAP
Start	1	End	101
GI	uC-osrocyp002b09b1	Score	187
Exons	1..101		
GI Descrip.	'4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	56036	Seq. ID	OJ000303_15.0419.C3
Gene No.	117292	Strand	-
Start	62	End	144
Name	OJ000303_15.0419.C3.o1.gs	Method	GENSCAN
Start	62	End	144
GI	none	Score	.64
Exons	62..144		

Seq. No.	56037	Seq. ID	OJ000303_15.0419.C7
Gene No.	117293	Strand	+
Start	521	End	1069
Name	OJ000303_15.0419.C7.o1.gs	Method	GENSCAN
Start	521	End	1069
GI	none	Score	.4

Exons 521..668, 946..1069

Seq. No.	56037	Seq. ID	OJ000303_15.0419.C7
Gene No.	117294	Strand	-
Start	3662	End	3891
Name	OJ000303_15.0419.C7.o2.gs	Method	GENSCAN
Start	3662	End	3891
GI	none	Score	.57
Exons	3662..3704, 3778..3891		

Seq. No.	56038	Seq. ID	OJ000303_15.0419.C8
Gene No.	117295	Strand	+
Start	2628	End	5859
Name	OJ000303_15.0419.C8.o1.gp	Method	AAT/GAP
Start	2628	End	2922
GI	none	Score	541
Exons	2628..2922		

Seq. No.	56038	Seq. ID	OJ000303_15.0419.C8
Gene No.	117295	Strand	+
Start	2628	End	5859
Name	OJ000303_15.0419.C8.o1.gs	Method	GENSCAN
Start	2765	End	5859
GI	none	Score	.92
Exons	2765..3045, 3140..3546, 3635..4033, 4251..4616, 4727..4923, 5027..5209, 5791..5859		

Seq. No.	56038	Seq. ID	OJ000303_15.0419.C8
Gene No.	117296	Strand	+
Start	11843	End	14958
Name	OJ000303_15.0419.C8.o3.np	Method	AAT/NAP
Start	11843	End	14958
GI	7340884	Score	110
Exons	11843..12122, 14928..14958		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	56038	Seq. ID	OJ000303_15.0419.C8
Gene No.	117297	Strand	-
Start	2889	End	12126
Name	OJ000303_15.0419.C8.o1.np	Method	AAT/NAP
Start	2889	End	11121
GI	6069653	Score	944
Exons	2889..2980, 3358..3501, 7249..8002, 8195..9125, 11084..11121		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	56038	Seq. ID	OJ000303_15.0419.C8
Gene No.	117297	Strand	-
Start	2889	End	12126
Name	OJ000303_15.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	3825	End	4600
GI	none	Score	106
Exons	3825..3896, 3901..4029, 3903..4022, 4247..4315, 4370..4435, 4375..4428, 4463..4600, 4465..4599		

Seq. No.	56038	Seq. ID	OJ000303_15.0419.C8
Gene No.	117297	Strand	-

Start	2889	End	12126
Name	OJ000303_15.0419.C8.o3.tm	Method	TBLASTX:Maize
Start	4334	End	4444
GI	none	Score	191
Exons	4334..4444, 4336..4443		

Seq. No.	56038	Seq. ID	OJ000303_15.0419.C8
Gene No.	117297	Strand	-
Start	2889	End	12126
Name	OJ000303_15.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	4343	End	4821
GI	none	Score	92
Exons	4343..4420, 4474..4557, 4475..4615, 4729..4821		

Seq. No.	56038	Seq. ID	OJ000303_15.0419.C8
Gene No.	117297	Strand	-
Start	2889	End	12126
Name	OJ000303_15.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	4450	End	4924
GI	none	Score	252
Exons	4450..4614, 4451..4615, 4453..4617, 4470..4616, 4502..4624, 4717..4869, 4725..4871, 4726..4878, 4749..4871, 4861..4923, 4864..4920, 4865..4924		

Seq. No.	56038	Seq. ID	OJ000303_15.0419.C8
Gene No.	117297	Strand	-
Start	2889	End	12126
Name	OJ000303_15.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	5063	End	5279
GI	none	Score	192
Exons	5063..5224, 5102..5224, 5124..5249, 5128..5226, 5228..5269, 5228..5272, 5229..5279, 5230..5271		

Seq. No.	56038	Seq. ID	OJ000303_15.0419.C8
Gene No.	117297	Strand	-
Start	2889	End	12126
Name	OJ000303_15.0419.C8.o2.gp	Method	AAT/GAP
Start	5265	End	5546
GI	none	Score	560
Exons	5265..5546		

Seq. No.	56038	Seq. ID	OJ000303_15.0419.C8
Gene No.	117297	Strand	-
Start	2889	End	12126
Name	OJ000303_15.0419.C8.o2.gs	Method	GENSCAN
Start	6781	End	12126
GI	none	Score	.53
Exons	6781..6918, 7433..7512, 7712..7822, 7878..7995, 8060..8327, 8368..8621, 8757..9134, 9252..9333, 10991..11192, 11949..12126		

Seq. No.	56038	Seq. ID	OJ000303_15.0419.C8
Gene No.	117297	Strand	-
Start	2889	End	12126
Name	OJ000303_15.0419.C8.o2.np	Method	AAT/NAP
Start	10128	End	11180
GI	4680186	Score	246
Exons	10128..10519, 11023..11180		

GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. No.	56039	Seq. ID	OJ000303_15.0419.C10
Gene No.	117298	Strand	-
Start	4088	End	4363
Name	OJ000303_15.0419.C10.o1.gp	Method	AAT/GAP
Start	4088	End	4363
GI	2310781	Score	219
Exons	4088..4152, 4282..4363		

Seq. No.	56039	Seq. ID	OJ000303_15.0419.C10
Gene No.	117299	Strand	-
Start	4333	End	4734
Name	OJ000303_15.0419.C10.o2.gp	Method	AAT/GAP
Start	4333	End	4734
GI	2310781	Score	272
Exons	4333..4363, 4609..4734		

Seq. No.	56040	Seq. ID	OJ000303_15.0419.C11
Gene No.	117300	Strand	+
Start	44	End	3148
Name	OJ000303_15.0419.C11.o1.gs	Method	GENSCAN
Start	44	End	3148
GI	none	Score	.53
Exons	44..130, 522..652, 1150..1229, 1343..1419, 3020..3148		

Seq. No.	56040	Seq. ID	OJ000303_15.0419.C11
Gene No.	117301	Strand	+
Start	7747	End	8092
Name	OJ000303_15.0419.C11.o1.gp	Method	AAT/GAP
Start	7747	End	8092
GI	uC-osrocyp002b09a1	Score	477
Exons	7747..8092		

GI Descrip. '4768980/gb|AAD29703.1|AF140490_1 1.0e-35 (AF140490) heat-shock protein [Oryza sativa]'

Seq. No.	56040	Seq. ID	OJ000303_15.0419.C11
Gene No.	117302	Strand	-
Start	8304	End	8811
Name	OJ000303_15.0419.C11.o2.gp	Method	AAT/GAP
Start	8304	End	8811
GI	uC-osrocyp002b09b1	Score	972
Exons	8304..8811		

GI Descrip. '4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'

Seq. No.	56040	Seq. ID	OJ000303_15.0419.C11
Gene No.	117303	Strand	-
Start	10386	End	10833
Name	OJ000303_15.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	10365	End	10833
GI	none	Score	72
Exons	10365..10628, 10462..10623, 10656..10832, 10741..10833		

Seq. No.	56040	Seq. ID	OJ000303_15.0419.C11
Gene No.	117303	Strand	-
Start	10386	End	10833

Name	OJ000303_15.0419.C11.o3.gs	Method	GENSCAN
Start	10386	End	10726
GI	none	Score	.5
Exons	10386..10726		

Seq. No.	56040	Seq. ID	OJ000303_15.0419.C11
Gene No.	117303	Strand	-
Start	10386	End	10833
Name	OJ000303_15.0419.C11.o1.np	Method	AAT/NAP
Start	10389	End	10833
GI	6630685	Score	501
Exons	10389..10833		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	56040	Seq. ID	OJ000303_15.0419.C11
Gene No.	117303	Strand	-
Start	10386	End	10833
Name	OJ000303_15.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	10407	End	10833
GI	none	Score	201
Exons	10407..10832, 10408..10833		

Seq. No.	56041	Seq. ID	OJ000303_15.0419.C12
Gene No.	117304	Strand	+
Start	2114	End	2435
Name	OJ000303_15.0419.C12.o1.gp	Method	AAT/GAP
Start	2114	End	2435
GI	none	Score	625
Exons	2114..2435		

Seq. No.	56041	Seq. ID	OJ000303_15.0419.C12
Gene No.	117305	Strand	-
Start	2215	End	2433
Name	OJ000303_15.0419.C12.o2.gs	Method	GENSCAN
Start	2215	End	2433
GI	none	Score	.99
Exons	2215..2433		

Seq. No.	56042	Seq. ID	OJ000303_15.0419.C13
Gene No.	117306	Strand	-
Start	1	End	961
Name	OJ000303_15.0419.C13.o1.gp	Method	AAT/GAP
Start	1	End	856
GI	none	Score	652
Exons	1..305, 824..856		

Seq. No.	56042	Seq. ID	OJ000303_15.0419.C13
Gene No.	117306	Strand	-
Start	1	End	961
Name	OJ000303_15.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	933
GI	2822157	Score	82
Exons	1..305, 824..933		
GI Descrip.	(AC004084) similar to GTPase-activating proteins; 35% similar to JC5047 (PID:g2136083) [Homo sapiens]		

Seq. No.	56042	Seq. ID	OJ000303_15.0419.C13
Gene No.	117306	Strand	-
Start	1	End	961
Name	OJ000303_15.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	1	End	308
GI	none	Score	48
Exons	1..39, 3..308, 76..306, 93..308		

Seq. No.	56042	Seq. ID	OJ000303_15.0419.C13
Gene No.	117306	Strand	-
Start	1	End	961
Name	OJ000303_15.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	35	End	871
GI	none	Score	185
Exons	35..307, 51..308, 76..306, 806..871		

Seq. No.	56042	Seq. ID	OJ000303_15.0419.C13
Gene No.	117306	Strand	-
Start	1	End	961
Name	OJ000303_15.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	87	End	935
GI	none	Score	63
Exons	87..194, 222..293, 246..308, 247..297, 821..934, 821..925, 822..935,		

Seq. No.	56042	Seq. ID	OJ000303_15.0419.C13
Gene No.	117306	Strand	-
Start	1	End	961
Name	OJ000303_15.0419.C13.o1.gs	Method	GENSCAN
Start	96	End	961
GI	none	Score	.4
Exons	96..305, 824..961		

Seq. No.	56043	Seq. ID	OJ000303_15.0419.C14
Gene No.	117307	Strand	-
Start	773	End	4218
Name	OJ000303_15.0419.C14.o1.gs	Method	GENSCAN
Start	773	End	4218
GI	none	Score	.87
Exons	773..888, 900..981, 1009..1419, 1538..1681, 2171..2296, 2816..2905, 2987..3049, 3476..3583, 4030..4218		

Seq. No.	56043	Seq. ID	OJ000303_15.0419.C14
Gene No.	117308	Strand	-
Start	7339	End	8741
Name	OJ000303_15.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	780	End	1113
GI	none	Score	84
Exons	780..902, 787..897, 788..907, 789..911, 1006..1113		

Seq. No.	56043	Seq. ID	OJ000303_15.0419.C14
Gene No.	117308	Strand	-
Start	7339	End	8741
Name	OJ000303_15.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	883	End	1239
GI	none	Score	52
Exons	883..918, 887..916, 1003..1221, 1007..1237, 1009..1239		

Seq. No.	56043	Seq. ID	OJ000303_15.0419.C14
Gene No.	117308	Strand	-
Start	7339	End	8741
Name	OJ000303_15.0419.C14.o1.np	Method	AAT/NAP
Start	7339	End	8741
GI	479357	Score	816
Exons	7339..8741		
GI Descrip.	hypothetical protein 612 - maize transposon MuA2 gi 22375 emb CAA44165 (X62251) ORF [Zea mays]		

Seq. No.	56043	Seq. ID	OJ000303_15.0419.C14
Gene No.	117308	Strand	-
Start	7339	End	8741
Name	OJ000303_15.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	7975	End	8601
GI	none	Score	73
Exons	7975..8250, 7976..8104, 8014..8238, 8266..8331, 8267..8320, 8332..8601, 8357..8596, 8413..8598		

Seq. No.	56044	Seq. ID	OJ000303_15.0419.C15
Gene No.	117309	Strand	+
Start	969	End	1524
Name	OJ000303_15.0419.C15.o2.gs	Method	GENSCAN
Start	969	End	1524
GI	none	Score	.99
Exons	969..980, 1000..1524		

Seq. No.	56044	Seq. ID	OJ000303_15.0419.C15
Gene No.	117310	Strand	-
Start	143	End	475
Name	OJ000303_15.0419.C15.o1.gs	Method	GENSCAN
Start	143	End	475
GI	none	Score	.53
Exons	143..165, 193..475		

Seq. No.	56044	Seq. ID	OJ000303_15.0419.C15
Gene No.	117311	Strand	-
Start	2144	End	3870
Name	OJ000303_15.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	2144	End	2287
GI	none	Score	126
Exons	2144..2287, 2148..2282		

Seq. No.	56044	Seq. ID	OJ000303_15.0419.C15
Gene No.	117311	Strand	-
Start	2144	End	3870
Name	OJ000303_15.0419.C15.o3.gs	Method	GENSCAN
Start	2144	End	3868
GI	none	Score	.91
Exons	2144..3868		

Seq. No.	56044	Seq. ID	OJ000303_15.0419.C15
Gene No.	117311	Strand	-
Start	2144	End	3870
Name	OJ000303_15.0419.C15.o1.np	Method	AAT/NAP
Start	2147	End	3870

GI 6498441 Score 2710
 Exons 2147..2428, 2522..3870
 GI Descrip. (AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No. 56044 Seq. ID OJ000303_15.0419.C15
 Gene No. 117311 Strand -
 Start 2144 End 3870
 Name OJ000303_15.0419.C15.o2.tw Method TBLASTX:Wheat
 Start 2156 End 2758
 GI none Score 77
 Exons 2156..2281, 2160..2282, 2469..2618, 2474..2758, 2572..2625, 2655..2753, 2695..2754

Seq. No. 56044 Seq. ID OJ000303_15.0419.C15
 Gene No. 117311 Strand -
 Start 2144 End 3870
 Name OJ000303_15.0419.C15.o1.tw Method TBLASTX:Wheat
 Start 2759 End 3140
 GI none Score 238
 Exons 2759..3139, 2790..3140

Seq. No. 56044 Seq. ID OJ000303_15.0419.C15
 Gene No. 117311 Strand -
 Start 2144 End 3870
 Name OJ000303_15.0419.C15.o1.tm Method TBLASTX:Maize
 Start 2945 End 3277
 GI none Score 80
 Exons 2945..3157, 2954..3277, 2967..3248

Seq. No. 56044 Seq. ID OJ000303_15.0419.C15
 Gene No. 117311 Strand -
 Start 2144 End 3870
 Name OJ000303_15.0419.C15.o3.tw Method TBLASTX:Wheat
 Start 3470 End 3791
 GI none Score 77
 Exons 3470..3730, 3606..3791

Seq. No. 56045 Seq. ID OJ000303_15.0419.C16
 Gene No. 117312 Strand +
 Start 4139 End 5313
 Name OJ000303_15.0419.C16.o2.np Method AAT/NAP
 Start 4139 End 5313
 GI 7523512 Score 205
 Exons 4139..4284, 5190..5313
 GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. No. 56045 Seq. ID OJ000303_15.0419.C16
 Gene No. 117313 Strand -
 Start 1 End 4273
 Name OJ000303_15.0419.C16.o1.np Method AAT/NAP
 Start 1 End 4273
 GI 7228457 Score 5931
 Exons 1..888, 1011..1846, 1910..3845, 3907..4273
 GI Descrip. (AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza

satival

Seq. No.	56045	Seq. ID	OJ000303_15.0419.C16
Gene No.	117314	Strand	-
Start	7607	End	7842
Name	OJ000303_15.0419.C16.o5.tw	Method	TBLASTX:Wheat
Start	1	End	408
GI	none	Score	63
Exons	1..99, 2..73, 143..319, 160..384, 187..408		

Seq. No.	56045	Seq. ID	OJ000303_15.0419.C16
Gene No.	117314	Strand	-
Start	7607	End	7842
Name	OJ000303_15.0419.C16.o6.tw	Method	TBLASTX:Wheat
Start	766	End	1053
GI	none	Score	60
Exons	766..1053, 959..1048		

Seq. No.	56045	Seq. ID	OJ000303_15.0419.C16
Gene No.	117314	Strand	-
Start	7607	End	7842
Name	OJ000303_15.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	817	End	1189
GI	none	Score	86
Exons	817..1047, 1043..1189, 1047..1172		

Seq. No.	56045	Seq. ID	OJ000303_15.0419.C16
Gene No.	117314	Strand	-
Start	7607	End	7842
Name	OJ000303_15.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	940	End	1325
GI	none	Score	60
Exons	940..1134, 959..1087, 1046..1324, 1047..1325		

Seq. No.	56045	Seq. ID	OJ000303_15.0419.C16
Gene No.	117314	Strand	-
Start	7607	End	7842
Name	OJ000303_15.0419.C16.o3.tw	Method	TBLASTX:Wheat
Start	1064	End	1370
GI	none	Score	182
Exons	1064..1369, 1077..1367, 1272..1370		

Seq. No.	56045	Seq. ID	OJ000303_15.0419.C16
Gene No.	117314	Strand	-
Start	7607	End	7842
Name	OJ000303_15.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	1352	End	1708
GI	none	Score	124
Exons	1352..1657, 1352..1708, 1557..1673		

Seq. No.	56045	Seq. ID	OJ000303_15.0419.C16
Gene No.	117314	Strand	-
Start	7607	End	7842
Name	OJ000303_15.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	1376	End	1838
GI	none	Score	216
Exons	1376..1837, 1382..1837, 1575..1838		

Seq. No.	56045	Seq. ID	OJ000303_15.0419.C16
Gene No.	117314	Strand	-
Start	7607	End	7842
Name	OJ000303_15.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	1433	End	1798
GI	none	Score	117
Exons	1433..1567, 1574..1798		

Seq. No.	56045	Seq. ID	OJ000303_15.0419.C16
Gene No.	117314	Strand	-
Start	7607	End	7842
Name	OJ000303_15.0419.C16.o2.tw	Method	TBLASTX:Wheat
Start	2003	End	2489
GI	none	Score	177
Exons	2003..2488, 2034..2294, 2316..2489		

Seq. No.	56045	Seq. ID	OJ000303_15.0419.C16
Gene No.	117314	Strand	-
Start	7607	End	7842
Name	OJ000303_15.0419.C16.o4.tw	Method	TBLASTX:Wheat
Start	3227	End	3616
GI	none	Score	99
Exons	3227..3484, 3261..3500, 3467..3565, 3468..3560, 3572..3616		

Seq. No.	56045	Seq. ID	OJ000303_15.0419.C16
Gene No.	117314	Strand	-
Start	7607	End	7842
Name	OJ000303_15.0419.C16.o3.tm	Method	TBLASTX:Maize
Start	3329	End	3577
GI	none	Score	106
Exons	3329..3577, 3330..3575		

Seq. No.	56045	Seq. ID	OJ000303_15.0419.C16
Gene No.	117314	Strand	-
Start	7607	End	7842
Name	OJ000303_15.0419.C16.o3.np	Method	AAT/NAP
Start	7607	End	7842
GI	5257279	Score	88
Exons	7607..7842		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	56046	Seq. ID	OJ000303_15.0419.C17
Gene No.	117315	Strand	+
Start	306	End	1521
Name	OJ000303_15.0419.C17.o1.gs	Method	GENSCAN
Start	306	End	1521
GI	none	Score	.56
Exons	306..422, 1462..1521		

Seq. No.	56046	Seq. ID	OJ000303_15.0419.C17
Gene No.	117315	Strand	+
Start	306	End	1521
Name	OJ000303_15.0419.C17.o1.gp	Method	AAT/GAP
Start	1277	End	1341
GI	uC-osflcyp158c04a1	Score	91

Exons 1277..1341
 GI Descrip. '4581164/gb|AAD24647.1|AC006220_3 2.0e-17 (AC006220) putative polyprotein [Arabidopsis thaliana]'

Seq. No.	56047	Seq. ID	OJ000303_15.0419.C18
Gene No.	117316	Strand	+
Start	658	End	1044
Name	OJ000303_15.0419.C18.o1.gs	Method	GENSCAN
Start	658	End	1044
GI	none	Score	.69
Exons	658..1044		

Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117317	Strand	+
Start	233	End	7153
Name	OJ000303_15.0419.C19.o1.gp	Method	AAT/GAP
Start	233	End	677
GI	none	Score	855
Exons	233..677		

Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117317	Strand	+
Start	233	End	7153
Name	OJ000303_15.0419.C19.o1.gs	Method	GENSCAN
Start	335	End	7153
GI	none	Score	.7
Exons	335..799, 1154..1291, 2189..2374, 3118..3255, 3370..3491, 3599..3731, 3993..4130, 4211..4342, 4644..4901, 5522..5575, 6022..6151, 6321..6377, 6389..6489, 6576..6704, 6784..6872, 6986..7091, 7139..7153		

Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117317	Strand	+
Start	233	End	7153
Name	OJ000303_15.0419.C19.o1.np	Method	AAT/NAP
Start	341	End	4964
GI	5902390	Score	1018
Exons	341..799, 1154..1291, 2189..2374, 3115..3255, 3370..3491, 3599..3731, 3819..3948, 4051..4130, 4211..4342, 4698..4964		
GI Descrip.	(AC008148) Unknown protein [Arabidopsis thaliana] gi 6453884 gb AAF09067.1 AC011663_3 (AC011663) unknown protein [Arabidopsis thaliana]		

Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117317	Strand	+
Start	233	End	7153
Name	OJ000303_15.0419.C19.o2.gp	Method	AAT/GAP
Start	2185	End	4888
GI	6840_2.R1084	Score	2061
Exons	2185..2374, 3118..3255, 3370..3491, 3599..3731, 3819..3948, 4051..4130, 4211..4342, 4689..4888		
GI Descrip.	'5902390/gb AAD55492.1 AC008148_2 1.0e-105 (AC008148) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117317	Strand	+
Start	233	End	7153

Name	OJ000303_15.0419.C19.o3.gp	Method	AAT/GAP
Start	5851	End	6211
GI	none	Score	484
Exons	5851..6013, 6097..6211		
Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117318	Strand	-
Start	7743	End	8856
Name	OJ000303_15.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	401	End	5107
GI	none	Score	85
Exons	401..451, 406..450, 498..569, 527..571, 1139..1294, 1139..1291, 2177..2374, 2180..2383, 3115..3255, 3117..3254, 3367..3489, 3369..3491, 3369..3491, 3370..3492, 3596..3733, 3596..3730, 3597..3746, 3598..3732, 3765..3944, 3809..3949, 3817..3954, 3818..3946, 3856..3948, 4023..4130, 4050..4130, 4054..4137, 4055..4135, 4209..4304, 4211..4342, 4211..4342, 4649..4858, 4677..4871, 4687..4884, 4688..4858, 4713..4871, 4827..4934, 4877..4930, 4878..4931, 5021..5107		
Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117318	Strand	-
Start	7743	End	8856
Name	OJ000303_15.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	407	End	3731
GI	none	Score	82
Exons	407..451, 1138..1260, 1154..1294, 2177..2287, 2180..2275, 2264..2386, 3114..3254, 3115..3255, 3370..3432, 3451..3492, 3575..3730, 3597..3731		
Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117318	Strand	-
Start	7743	End	8856
Name	OJ000303_15.0419.C19.o4.ts	Method	TBLASTX:Soybean
Start	1148	End	2254
GI	none	Score	195
Exons	1148..1294, 1171..1260, 2180..2254		
Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117318	Strand	-
Start	7743	End	8856
Name	OJ000303_15.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	3178	End	4130
GI	none	Score	90
Exons	3178..3255, 3183..3254, 3369..3491, 3370..3492, 3597..3746, 3611..3727, 3818..3913, 3819..3938, 4053..4130		
Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117318	Strand	-
Start	7743	End	8856
Name	OJ000303_15.0419.C19.o3.tc	Method	TBLASTX:Cress
Start	3787	End	4864
GI	none	Score	77
Exons	3787..3918, 3792..3935, 3800..3949, 3818..3913, 4053..4130, 4211..4303, 4739..4864, 4740..4844		
Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19

Gene No.	117318	Strand	-
Start	7743	End	8856
Name	OJ000303_15.0419.C19.o4.tm	Method	TBLASTX:Maize
Start	6108	End	6710
GI	none	Score	49
Exons	6108..6164, 6112..6165, 6205..6228, 6271..6303, 6272..6289, 6384..6476, 6390..6467, 6466..6489, 6566..6703, 6576..6710		

Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117318	Strand	-
Start	7743	End	8856
Name	OJ000303_15.0419.C19.o3.ts	Method	TBLASTX:Soybean
Start	6674	End	7130
GI	none	Score	43
Exons	6674..6709, 6675..6710, 6781..6873, 6783..6872, 6983..7093, 6984..7130		

Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117318	Strand	-
Start	7743	End	8856
Name	OJ000303_15.0419.C19.o3.tm	Method	TBLASTX:Maize
Start	6784	End	7197
GI	none	Score	140
Exons	6784..6873, 6789..6872, 6983..7138, 6984..7124, 6985..7125, 7096..7197, 7119..7187		

Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117318	Strand	-
Start	7743	End	8856
Name	OJ000303_15.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	6816	End	7166
GI	none	Score	87
Exons	6816..6872, 6817..6873, 6983..7123, 6984..7124, 6988..7125, 7119..7166		

Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117318	Strand	-
Start	7743	End	8856
Name	OJ000303_15.0419.C19.o4.gp	Method	AAT/GAP
Start	7430	End	7870
GI	702658	Score	857
Exons	7430..7870		

Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117318	Strand	-
Start	7743	End	8856
Name	OJ000303_15.0419.C19.o2.gs	Method	GENSCAN
Start	7743	End	8843
GI	none	Score	.59
Exons	7743..7879, 8223..8388, 8493..8632, 8742..8843		

Seq. No.	56048	Seq. ID	OJ000303_15.0419.C19
Gene No.	117318	Strand	-
Start	7743	End	8856
Name	OJ000303_15.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	7746	End	8856
GI	none	Score	116

Exons 7746..7880, 7753..7881, 7789..7881, 7975..8097, 7978..8058, 7979..8059, 8147..8218, 8150..8218, 8151..8219, 8294..8389, 8296..8397, 8472..8630, 8500..8631, 8746..8850, 8755..8856, 8757..8855

Seq. No. 56048 Seq. ID OJ000303_15.0419.C19
 Gene No. 117318 Strand -
 Start 7743 End 8856
 Name OJ000303_15.0419.C19.o2.np Method AAT/NAP
 Start 7764 End 8854
 GI 7489371 Score 404
 Exons 7764..7879, 7987..8060, 8151..8218, 8296..8388, 8493..8632, 8742..8854
 GI Descrip. endonuclease (EC 3.1.30.-) precursor - barley
 gi|3242403|dbj|BAA28942.1| (D83178) endonuclease [Hordeum vulgare]

Seq. No. 56048 Seq. ID OJ000303_15.0419.C19
 Gene No. 117318 Strand -
 Start 7743 End 8856
 Name OJ000303_15.0419.C19.o2.tc Method TBLASTX:Cress
 Start 7791 End 8227
 GI none Score 72
 Exons 7791..7880, 7795..7881, 7972..8061, 7979..8059, 8153..8227

Seq. No. 56048 Seq. ID OJ000303_15.0419.C19
 Gene No. 117318 Strand -
 Start 7743 End 8856
 Name OJ000303_15.0419.C19.o2.ts Method TBLASTX:Soybean
 Start 8457 End 8817
 GI none Score 109
 Exons 8457..8630, 8488..8631, 8743..8817

Seq. No. 56049 Seq. ID OJ000303_15.0419.C20
 Gene No. 117319 Strand +
 Start 1 End 109
 Name OJ000303_15.0419.C20.o1.gp Method AAT/GAP
 Start 1 End 109
 GI LIB3477-003-P1-K1-E9 Score 134
 Exons 1..109
 GI Descrip. '2498586/sp|Q40638|MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No. 56049 Seq. ID OJ000303_15.0419.C20
 Gene No. 117320 Strand -
 Start 257 End 796
 Name OJ000303_15.0419.C20.o1.gs Method GENSCAN
 Start 257 End 796
 GI none Score .79
 Exons 257..330, 383..554, 656..796

Seq. No. 56049 Seq. ID OJ000303_15.0419.C20
 Gene No. 117320 Strand -
 Start 257 End 796
 Name OJ000303_15.0419.C20.o1.np Method AAT/NAP
 Start 377 End 778

GI 6715723 Score 207
 Exons 377..554, 656..778
 GI Descrip. (AC016447) putative bifunctional nuclease [Arabidopsis thaliana]

Seq. No. 56049 Seq. ID OJ000303_15.0419.C20
 Gene No. 117320 Strand -
 Start 257 End 796
 Name OJ000303_15.0419.C20.o2.gp Method AAT/GAP
 Start 379 End 794
 GI LIB3477-010-P1-K1-H6 Score 581
 Exons 379..554, 656..794
 GI Descrip. '5672692/dbj|BAA82696.1| 9.0e-17 (AB028448) nuclease I [Hordeum vulgare]'

Seq. No. 56049 Seq. ID OJ000303_15.0419.C20
 Gene No. 117320 Strand -
 Start 257 End 796
 Name OJ000303_15.0419.C20.o1.tm Method TBLASTX:Maize
 Start 381 End 728
 GI none Score 144
 Exons 381..560, 382..558, 650..727, 654..728

Seq. No. 56049 Seq. ID OJ000303_15.0419.C20
 Gene No. 117320 Strand -
 Start 257 End 796
 Name OJ000303_15.0419.C20.o1.tw Method TBLASTX:Wheat
 Start 381 End 743
 GI none Score 59
 Exons 381..551, 656..742, 657..743

Seq. No. 56050 Seq. ID OJ000303_15.0419.C21
 Gene No. 117321 Strand +
 Start 1 End 1953
 Name OJ000303_15.0419.C21.o1.np Method AAT/NAP
 Start 1 End 1467
 GI 4099833 Score 726
 Exons 1..198, 299..392, 489..552, 645..728, 878..970, 1042..1109, 1199..1272, 1376..1467
 GI Descrip. (U90265) bifunctional nuclease [Zinnia elegans]

Seq. No. 56050 Seq. ID OJ000303_15.0419.C21
 Gene No. 117321 Strand +
 Start 1 End 1953
 Name OJ000303_15.0419.C21.o1.gs Method GENSCAN
 Start 457 End 1953
 GI none Score .71
 Exons 457..552, 878..970, 1042..1109, 1199..1272, 1883..1953

Seq. No. 56050 Seq. ID OJ000303_15.0419.C21
 Gene No. 117322 Strand -
 Start 4626 End 8844
 Name OJ000303_15.0419.C21.o1.ts Method TBLASTX:Soybean
 Start 12 End 552
 GI none Score 204
 Exons 12..200, 26..187, 301..381, 499..552

Seq. No. 56050 Seq. ID OJ000303_15.0419.C21

Gene No.	117322	Strand	-
Start	4626	End	8844
Name	OJ000303_15.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	50	End	738
GI	none	Score	229
Exons	50..208, 51..197, 86..199, 301..399, 301..381, 333..395, 498..551, 499..552, 623..730, 627..734, 642..731, 643..738		

Seq. No.	56050	Seq. ID	OJ000303_15.0419.C21
Gene No.	117322	Strand	-
Start	4626	End	8844
Name	OJ000303_15.0419.C21.o2.ts	Method	TBLASTX:Soybean
Start	626	End	1419
GI	none	Score	108
Exons	626..748, 642..731, 878..970, 1048..1125, 1193..1264, 1194..1289, 1375..1419		

Seq. No.	56050	Seq. ID	OJ000303_15.0419.C21
Gene No.	117322	Strand	-
Start	4626	End	8844
Name	OJ000303_15.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	878	End	1488
GI	none	Score	73
Exons	878..970, 1048..1125, 1200..1268, 1369..1464, 1375..1488		

Seq. No.	56050	Seq. ID	OJ000303_15.0419.C21
Gene No.	117322	Strand	-
Start	4626	End	8844
Name	OJ000303_15.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	1048	End	1467
GI	none	Score	74
Exons	1048..1125, 1200..1268, 1369..1467, 1374..1460		

Seq. No.	56050	Seq. ID	OJ000303_15.0419.C21
Gene No.	117322	Strand	-
Start	4626	End	8844
Name	OJ000303_15.0419.C21.o2.gs	Method	GENSCAN
Start	4626	End	8844
GI	none	Score	.81
Exons	4626..4755, 8710..8844		

Seq. No.	56051	Seq. ID	OJ000303_15.0419.C22
Gene No.	117323	Strand	+
Start	1546	End	2619
Name	OJ000303_15.0419.C22.o1.gs	Method	GENSCAN
Start	1546	End	2619
GI	none	Score	.62
Exons	1546..1685, 2377..2398, 2601..2619		

Seq. No.	56051	Seq. ID	OJ000303_15.0419.C22
Gene No.	117324	Strand	+
Start	3265	End	5464
Name	OJ000303_15.0419.C22.o2.gs	Method	GENSCAN
Start	3265	End	4519
GI	none	Score	.82
Exons	3265..3445, 3744..4519		

Seq. No.	56051	Seq. ID	OJ000303_15.0419.C22
Gene No.	117324	Strand	+
Start	3265	End	5464
Name	OJ000303_15.0419.C22.o1.np	Method	AAT/NAP
Start	3292	End	5464
GI	6715735	Score	531
Exons	3292..3445, 3545..3674, 3770..4131, 5375..5464		
GI Descrip.	(AC016447) putative transcription factor [Arabidopsis thaliana]		

Seq. No.	56051	Seq. ID	OJ000303_15.0419.C22
Gene No.	117325	Strand	-
Start	2837	End	2890
Name	OJ000303_15.0419.C22.o1.gp	Method	AAT/GAP
Start	2837	End	2890
GI	77434_1.R1084	Score	83
Exons	2837..2890		
GI Descrip.	'2827528/emb CAA16536.1 2.0e-10 (AL021633) predicted protein [Arabidopsis thaliana]'		

Seq. No.	56051	Seq. ID	OJ000303_15.0419.C22
Gene No.	117326	Strand	
Start	3082	End	3938
Name	OJ000303_15.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	3082	End	3657
GI	none	Score	50
Exons	3082..3126, 3103..3150, 3126..3149, 3258..3449, 3259..3447, 3540..3623, 3544..3657, 3583..3657		

Seq. No.	56051	Seq. ID	OJ000303_15.0419.C22
Gene No.	117326	Strand	
Start	3082	End	3938
Name	OJ000303_15.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	3346	End	3938
GI	none	Score	122
Exons	3346..3447, 3354..3449, 3544..3675, 3737..3937, 3768..3938		

Seq. No.	56051	Seq. ID	OJ000303_15.0419.C22
Gene No.	117326	Strand	
Start	3082	End	3938
Name	OJ000303_15.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	3346	End	3938
GI	none	Score	128
Exons	3346..3447, 3352..3435, 3354..3449, 3544..3675, 3734..3919, 3768..3938		

Seq. No.	56051	Seq. ID	OJ000303_15.0419.C22
Gene No.	117326	Strand	
Start	3082	End	3938
Name	OJ000303_15.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	3352	End	3881
GI	none	Score	93
Exons	3352..3447, 3354..3449, 3544..3675, 3737..3835, 3768..3881		

Seq. No.	56051	Seq. ID	OJ000303_15.0419.C22
Gene No.	117326	Strand	
Start	3082	End	3938
Name	OJ000303_15.0419.C22.o2.tm	Method	TBLASTX:Maize

Start	3791	End	3938
GI	none	Score	184
Exons	3791..3937, 3792..3938		

Seq. No.	56052	Seq. ID	OJ000313_16.0419.C5
Gene No.	117327	Strand	+
Start	1	End	1305
Name	OJ000313_16.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	1305
GI	7489049	Score	448
Exons	1..82, 325..385, 477..595, 690..840, 917..997, 1093..1179, 1285..1305		
GI Descrip.	probable cullin protein - tomato gi 3687389 emb CAA76074.1 (Y16124) putative cullin protein [Lycopersicon esculentum]		

Seq. No.	56052	Seq. ID	OJ000313_16.0419.C5
Gene No.	117327	Strand	+
Start	1	End	1305
Name	OJ000313_16.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	2	End	1176
GI	none	Score	126
Exons	2..82, 3..83, 10..84, 11..85, 48..86, 305..385, 308..385, 322..387, 475..606, 476..607, 495..608, 645..839, 673..843, 697..843, 914..997, 914..1000, 915..1001, 1090..1176, 1091..1174		

Seq. No.	56052	Seq. ID	OJ000313_16.0419.C5
Gene No.	117327	Strand	+
Start	1	End	1305
Name	OJ000313_16.0419.C5.o1.gs	Method	GENSCAN
Start	57	End	1173
GI	none	Score	.91
Exons	57..82, 325..385, 477..608, 703..840, 917..997, 1093..1173		

Seq. No.	56052	Seq. ID	OJ000313_16.0419.C5
Gene No.	117327	Strand	+
Start	1	End	1305
Name	OJ000313_16.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	356	End	1189
GI	none	Score	55
Exons	356..385, 463..609, 476..619, 495..608, 675..839, 676..840, 920..997, 929..1009, 1090..1176, 1090..1173, 1124..1189		

Seq. No.	56052	Seq. ID	OJ000313_16.0419.C5
Gene No.	117327	Strand	+
Start	1	End	1305
Name	OJ000313_16.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	514	End	1179
GI	none	Score	164
Exons	514..582, 515..607, 516..608, 645..839, 673..843, 695..844, 914..997, 914..1000, 918..1013, 1084..1179, 1086..1175, 1090..1176		

Seq. No.	56052	Seq. ID	OJ000313_16.0419.C5
Gene No.	117327	Strand	+
Start	1	End	1305
Name	OJ000313_16.0419.C5.o1.gp	Method	AAT/GAP
Start	696	End	1173

GI 26540_1.R1084 Score 475
 Exons 696..840, 917..997, 1093..1173
 GI Descrip. '3327204/dbj|BAA31670| 4.0e-58 (AB014595) KIAA0695 protein [Homo sapiens]'

Seq. No. 56052 Seq. ID OJ000313_16.0419.C5
 Gene No. 117327 Strand +
 Start 1 End 1305
 Name OJ000313_16.0419.C5.o1.tw Method TBLASTX:Wheat
 Start 768 End 1183
 GI none Score 78
 Exons 768..839, 768..839, 769..840, 769..840, 914..1000, 920..997, 952..999, 1090..1176, 1090..1179, 1091..1183

Seq. No. 56053 Seq. ID OJ000313_16.0419.C6
 Gene No. 117328 Strand +
 Start 1 End 84
 Name OJ000313_16.0419.C6.o1.np Method AAT/NAP
 Start 1 End 84
 GI 7489049 Score 134
 Exons 1..84
 GI Descrip. probable cullin protein - tomato gi|3687389|emb|CAA76074.1| (Y16124) putative cullin protein [Lycopersicon esculentum]

Seq. No. 56053 Seq. ID OJ000313_16.0419.C6
 Gene No. 117329 Strand +
 Start 1 End 277
 Name OJ000313_16.0419.C6.o1.gp Method AAT/GAP
 Start 1 End 277
 GI 26540_1.R1084 Score 526
 Exons 1..277
 GI Descrip. '3327204/dbj|BAA31670| 4.0e-58 (AB014595) KIAA0695 protein [Homo sapiens]'

Seq. No. 56053 Seq. ID OJ000313_16.0419.C6
 Gene No. 117330 Strand +
 Start 1053 End 1415
 Name OJ000313_16.0419.C6.o1.gs Method GENSCAN
 Start 1053 End 1415
 GI none Score .44
 Exons 1053..1415

Seq. No. 56054 Seq. ID OJ000313_16.0419.C7
 Gene No. 117331 Strand +
 Start 1 End 1057
 Name OJ000313_16.0419.C7.o1.gs Method GENSCAN
 Start 1 End 1057
 GI none Score .73
 Exons 1..35, 907..1057

Seq. No. 56055 Seq. ID OJ000313_16.0419.C8
 Gene No. 117332 Strand -
 Start 261 End 789
 Name OJ000313_16.0419.C8.o1.np Method AAT/NAP
 Start 261 End 789
 GI 7106528 Score 61
 Exons 261..395, 751..789

GI Descrip. (AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	56056	Seq. ID	OJ000313_16.0419.C9
Gene No.	117333	Strand	-
Start	9	End	33
Name	OJ000313_16.0419.C9.ol.gs	Method	GENSCAN
Start	9	End	33
GI	none	Score	.47
Exons	9..33		

Seq. No.	56057	Seq. ID	OJ000313_16.0419.C11
Gene No.	117334	Strand	-
Start	278	End	639
Name	OJ000313_16.0419.C11.ol.gs	Method	GENSCAN
Start	278	End	638
GI	none	Score	.94
Exons	278..388, 462..638		

Seq. No.	56057	Seq. ID	OJ000313_16.0419.C11
Gene No.	117334	Strand	-
Start	278	End	639
Name	OJ000313_16.0419.C11.ol.tm	Method	TBLASTX:Maize
Start	458	End	639
GI	none	Score	178
Exons	458..634, 459..638, 460..639, 534..638		

Seq. No.	56058	Seq. ID	OJ000313_16.0419.C14
Gene No.	117335	Strand	+
Start	190	End	756
Name	OJ000313_16.0419.C14.ol.gs	Method	GENSCAN
Start	190	End	329
GI	none	Score	.94
Exons	190..329		

Seq. No.	56058	Seq. ID	OJ000313_16.0419.C14
Gene No.	117335	Strand	+
Start	190	End	756
Name	OJ000313_16.0419.C14.ol.np	Method	AAT/NAP
Start	190	End	756
GI	7431424	Score	188
Exons	190..331, 685..756		

GI Descrip. probable (S)-2-hydroxy-acid oxidase (EC 1.1.3.15), peroxisomal - rice gi|2570515|gb|AAB82143.1| (AF022740) glycolate oxidase [Oryza sativa]

Seq. No.	56058	Seq. ID	OJ000313_16.0419.C14
Gene No.	117336	Strand	-
Start	138	End	332
Name	OJ000313_16.0419.C14.ol.gp	Method	AAT/GAP
Start	138	End	331
GI	LIB3432-057-P1-K1-D10	Score	310
Exons	138..331		
GI Descrip.	'2570515 1.0e-43 (AF022740) glycolate oxidase [Oryza sativa]'		

Seq. No.	56058	Seq. ID	OJ000313_16.0419.C14
Gene No.	117336	Strand	-

Start	138	End	332
Name	OJ000313_16.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	178	End	332
GI	none	Score	233
Exons	178..324, 180..329, 188..331, 192..332		

Seq. No.	56058	Seq. ID	OJ000313_16.0419.C14
Gene No.	117336	Strand	-
Start	138	End	332
Name	OJ000313_16.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	186	End	329
GI	none	Score	204
Exons	186..329, 187..324		

Seq. No.	56058	Seq. ID	OJ000313_16.0419.C14
Gene No.	117336	Strand	-
Start	138	End	332
Name	OJ000313_16.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	195	End	330
GI	none	Score	197
Exons	195..329, 196..324, 256..330		

Seq. No.	56059	Seq. ID	OJ000313_16.0419.C16
Gene No.	117337	Strand	-
Start	1	End	223
Name	OJ000313_16.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	223
GI	7529257	Score	129
Exons	1..223		
GI Descrip.	(AL138654) putative protein [Arabidopsis thaliana]		

Seq. No.	56060	Seq. ID	OJ000313_16.0419.C17
Gene No.	117338	Strand	-
Start	1	End	1181
Name	OJ000313_16.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	1181
GI	7529257	Score	177
Exons	1..26, 590..754, 893..1019, 1086..1181		
GI Descrip.	(AL138654) putative protein [Arabidopsis thaliana]		

Seq. No.	56060	Seq. ID	OJ000313_16.0419.C17
Gene No.	117339	Strand	-
Start	3066	End	4250
Name	OJ000313_16.0419.C17.o2.np	Method	AAT/NAP
Start	3066	End	4250
GI	3928096	Score	711
Exons	3066..3697, 3731..4250		
GI Descrip.	(AC005770) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56060	Seq. ID	OJ000313_16.0419.C17
Gene No.	117339	Strand	-
Start	3066	End	4250
Name	OJ000313_16.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	3285	End	3557
GI	none	Score	111
Exons	3285..3485, 3285..3557, 3356..3508, 3457..3522		

Seq. No.	56060	Seq. ID	OJ000313_16.0419.C17
Gene No.	117339	Strand	-
Start	3066	End	4250
Name	OJ000313_16.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	3380	End	3671
GI	none	Score	166
Exons	3380..3628, 3381..3671, 3558..3671		

Seq. No.	56061	Seq. ID	OJ000313_16.0419.C18
Gene No.	117340	Strand	+
Start	267	End	1495
Name	OJ000313_16.0419.C18.o1.gs	Method	GENSCAN
Start	267	End	1495
GI	none	Score	.79
Exons	267..347, 682..837, 1123..1252, 1351..1495		

Seq. No.	56062	Seq. ID	OJ000313_16.0419.C20
Gene No.	117341	Strand	+
Start	290	End	1087
Name	OJ000313_16.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	281	End	487
GI	none	Score	250
Exons	281..487, 289..486		

Seq. No.	56062	Seq. ID	OJ000313_16.0419.C20
Gene No.	117341	Strand	+
Start	290	End	1087
Name	OJ000313_16.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	281	End	859
GI	none	Score	314
Exons	281..487, 289..486, 318..488, 602..682, 603..692, 818..859		

Seq. No.	56062	Seq. ID	OJ000313_16.0419.C20
Gene No.	117341	Strand	+
Start	290	End	1087
Name	OJ000313_16.0419.C20.o1.np	Method	AAT/NAP
Start	290	End	1081
GI	6041789	Score	470
Exons	290..484, 615..692, 773..1081		
GI Descrip.	(AC009755) putative N2,N2-dimethylguanosine tRNA methyltransferase [Arabidopsis thaliana]		

Seq. No.	56062	Seq. ID	OJ000313_16.0419.C20
Gene No.	117341	Strand	+
Start	290	End	1087
Name	OJ000313_16.0419.C20.o1.gs	Method	GENSCAN
Start	366	End	1087
GI	none	Score	.89
Exons	366..484, 773..1087		

Seq. No.	56062	Seq. ID	OJ000313_16.0419.C20
Gene No.	117341	Strand	+
Start	290	End	1087
Name	OJ000313_16.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	817	End	1054
GI	none	Score	187
Exons	817..930, 818..931, 938..1054		

Seq. No.	56063	Seq. ID	OJ000313_16.0419.C22
Gene No.	117342	Strand	+
Start	267	End	924
Name	OJ000313_16.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	264	End	923
GI	none	Score	214
Exons	264..443, 265..447, 265..447, 537..599, 544..609, 545..601, 602..664, 603..665, 613..666, 853..918, 861..923, 861..917, 863..919		

Seq. No.	56063	Seq. ID	OJ000313_16.0419.C22
Gene No.	117342	Strand	+
Start	267	End	924
Name	OJ000313_16.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	264	End	924
GI	none	Score	290
Exons	264..446, 265..450, 271..450, 302..451, 537..665, 541..585, 542..661, 835..924, 843..923		

Seq. No.	56063	Seq. ID	OJ000313_16.0419.C22
Gene No.	117342	Strand	+
Start	267	End	924
Name	OJ000313_16.0419.C22.o1.gs	Method	GENSCAN
Start	267	End	447
GI	none	Score	.85
Exons	267..447		

Seq. No.	56063	Seq. ID	OJ000313_16.0419.C22
Gene No.	117342	Strand	+
Start	267	End	924
Name	OJ000313_16.0419.C22.o1.np	Method	AAT/NAP
Start	267	End	924
GI	7489049	Score	411
Exons	267..447, 543..665, 864..924		
GI Descrip.	probable cullin protein - tomato gi 3687389 emb CAA76074.1 (Y16124) putative cullin protein [Lycopersicon esculentum]		

Seq. No.	56064	Seq. ID	OJ000313_16.0419.C25
Gene No.	117343	Strand	-
Start	484	End	504
Name	OJ000313_16.0419.C25.o1.gs	Method	GENSCAN
Start	484	End	504
GI	none	Score	.62
Exons	484..504		

Seq. No.	56065	Seq. ID	OJ000313_16.0419.C26
Gene No.	117344	Strand	+
Start	1198	End	1363
Name	OJ000313_16.0419.C26.o1.gp	Method	AAT/GAP
Start	1198	End	1363
GI	512_1.R1084	Score	304
Exons	1198..1363		
GI Descrip.	'729480/sp P41345 FENS_ORYSA 0.0e+00 FERREDOXIN--NADP REDUCTASE, ROOT ISOZYME PRECURSOR (FNR) >gi_435647_dbj_BAA04232_ (D17410) ferredoxin-NADP+ reductase [Oryza sativa] >gi_902936_dbj_BAA07479.1_ (D38445) root ferredoxin-NADP+		

reductase [Oryza sativa] >gi_1096932_prf_2113196A
 ferredoxin-NADP oxidoreductase [Oryza sativa]'

Seq. No.	56065	Seq. ID	OJ000313_16.0419.C26
Gene No.	117345	Strand	-
Start	673	End	877
Name	OJ000313_16.0419.C26.o1.gs	Method	GENSCAN
Start	673	End	877
GI	none	Score	.53
Exons	673..877		

Seq. No.	56066	Seq. ID	OJ000313_16.0419.C27
Gene No.	117346	Strand	-
Start	1	End	1810
Name	OJ000313_16.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	1810
GI	729480	Score	1275
Exons	1..19, 191..432, 816..1038, 1392..1810		
GI Descrip.	FERREDOXIN--NADP REDUCTASE, ROOT ISOZYME PRECURSOR (FNR) gi 435647 dbj BAA04232 (D17410) ferredoxin-NADP+ reductase [Oryza sativa] gi 902936 dbj BAA07479.1 (D38445) root ferredoxin-NADP+ reductase [Oryza sativa] gi 1096932 prf 2113196A ferredoxin-NADP oxidoreductase [Oryza sativa]		

Seq. No.	56066	Seq. ID	OJ000313_16.0419.C27
Gene No.	117346	Strand	-
Start	1	End	1810
Name	OJ000313_16.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	180	End	1734
GI	none	Score	130
Exons	180..248, 191..316, 191..316, 267..317, 299..433, 303..434, 312..434, 814..945, 815..946, 830..946, 962..1039, 963..995, 1001..1039, 1383..1730, 1393..1695, 1408..1734		

Seq. No.	56066	Seq. ID	OJ000313_16.0419.C27
Gene No.	117346	Strand	-
Start	1	End	1810
Name	OJ000313_16.0419.C27.o1.tc	Method	TBLASTX:Cress
Start	186	End	1724
GI	none	Score	35
Exons	186..209, 188..418, 190..333, 191..433, 198..440, 261..434, 814..939, 814..945, 815..946, 963..1001, 994..1035, 995..1039, 1000..1038, 1383..1649, 1393..1584, 1692..1724		

Seq. No.	56066	Seq. ID	OJ000313_16.0419.C27
Gene No.	117346	Strand	-
Start	1	End	1810
Name	OJ000313_16.0419.C27.o1.gp	Method	AAT/GAP
Start	190	End	1730
GI	512_1.R1084	Score	1493
Exons	190..432, 816..1038, 1392..1730		
GI Descrip.	'729480/sp P41345 FENS_ORYSA 0.0e+00 FERREDOXIN--NADP REDUCTASE, ROOT ISOZYME PRECURSOR (FNR) >gi_435647_dbj_BAA04232_ (D17410) ferredoxin-NADP+ reductase [Oryza sativa] >gi_902936_dbj_BAA07479.1_ (D38445) root ferredoxin-NADP+ reductase [Oryza sativa] >gi_1096932_prf_2113196A		

ferredoxin-NADP oxidoreductase [Oryza sativa]'

Seq. No.	56066	Seq. ID	OJ000313_16.0419.C27
Gene No.	117346	Strand	-
Start	1	End	1810
Name	OJ000313_16.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	191	End	1635
GI	none	Score	193
Exons	191..433, 194..430, 195..434, 261..434, 814..945, 815..946, 966..1001, 1000..1038, 1001..1039, 1382..1573, 1383..1634, 1393..1635		

Seq. No.	56066	Seq. ID	OJ000313_16.0419.C27
Gene No.	117346	Strand	-
Start	1	End	1810
Name	OJ000313_16.0419.C27.o1.gs	Method	GENSCAN
Start	192	End	1727
GI	none	Score	.71
Exons	192..432, 975..1038, 1392..1727		

Seq. No.	56066	Seq. ID	OJ000313_16.0419.C27
Gene No.	117346	Strand	-
Start	1	End	1810
Name	OJ000313_16.0419.C27.o1.tw	Method	TBLASTX:Wheat
Start	1493	End	1730
GI	none	Score	119
Exons	1493..1630, 1494..1631, 1496..1630, 1498..1638, 1651..1728, 1656..1730, 1659..1730		

Seq. No.	56067	Seq. ID	OJ000313_16.0419.C28
Gene No.	117347	Strand	-
Start	1	End	78
Name	OJ000313_16.0419.C28.o1.gp	Method	AAT/GAP
Start	1	End	78
GI	512_1.R1084	Score	156
Exons	1..78		
GI Descrip.	'729480/sp P41345 FENS_ORYSA 0.0e+00 FERREDOXIN--NADP REDUCTASE, ROOT ISOZYME PRECURSOR (FNR) >gi_435647_dbj_BAA04232_ (D17410) ferredoxin-NADP+ reductase [Oryza sativa] >gi_902936_dbj_BAA07479.1_ (D38445) root ferredoxin-NADP+ reductase [Oryza sativa] >gi_1096932_prf_2113196A ferredoxin-NADP oxidoreductase [Oryza sativa]'		

Seq. No.	56068	Seq. ID	OJ000313_16.0419.C29
Gene No.	117348	Strand	-
Start	1	End	830
Name	OJ000313_16.0419.C29.o1.gp	Method	AAT/GAP
Start	1	End	830
GI	22234_1.R1084	Score	305
Exons	1..41, 391..433, 727..830		
GI Descrip.	'1620896/dbj BAA13507 8.0e-94 (D87956) protein involved in sexual development [Schizosaccharomyces pombe] >gi_2408048_emb_CAB16251_ (Z99164) hypothetical protein [Schizosaccharomyces pombe]'		

Seq. No.	56068	Seq. ID	OJ000313_16.0419.C29
Gene No.	117348	Strand	-

Start	1	End	830
Name	OJ000313_16.0419.C29.ol.np	Method	AAT/NAP
Start	1	End	830
GI	4885579	Score	171
Exons	1..41, 391..433, 727..830		
GI Descrip.	rcd1 (required for cell differentiation, S.pombe) homolog 1 gi 1620898 dbj BAA13508 (D87957) protein involved in sexual development [Homo sapiens]		

Seq. No.	56069	Seq. ID	OJ000313_16.0419.C30
Gene No.	117349	Strand	-
Start	110	End	325
Name	OJ000313_16.0419.C30.ol.gp	Method	AAT/GAP
Start	110	End	179
GI	22234_1.R1084	Score	117
Exons	110..179		
GI Descrip.	'1620896/dbj BAA13507 8.0e-94 (D87956) protein involved in sexual development [Schizosaccharomyces pombe] >gi_2408048_emb_CAB16251_ (Z99164) hypothetical protein [Schizosaccharomyces pombe]'		

Seq. No.	56069	Seq. ID	OJ000313_16.0419.C30
Gene No.	117349	Strand	-
Start	110	End	325
Name	OJ000313_16.0419.C30.ol.gs	Method	GENSCAN
Start	110	End	325
GI	none	Score	1
Exons	110..325		

Seq. No.	56070	Seq. ID	OJ000313_16.0419.C31
Gene No.	117350	Strand	+
Start	158	End	2341
Name	OJ000313_16.0419.C31.ol.np	Method	AAT/NAP
Start	158	End	2341
GI	5106775	Score	94
Exons	158..178, 1882..1930, 2135..2199, 2289..2341		
GI Descrip.	(AF067732) ribosomal protein S12 [Hordeum vulgare]		

Seq. No.	56071	Seq. ID	OJ000313_16.0419.C32
Gene No.	117351	Strand	-
Start	1	End	2413
Name	OJ000313_16.0419.C32.ol.gp	Method	AAT/GAP
Start	1	End	2063
GI	2506_1.R1084	Score	903
Exons	1..83, 430..575, 693..865, 1949..2063		
GI Descrip.	'3132476 1.0e-61 (AC003096) unknown protein [Arabidopsis thaliana]'		

Seq. No.	56071	Seq. ID	OJ000313_16.0419.C32
Gene No.	117351	Strand	-
Start	1	End	2413
Name	OJ000313_16.0419.C32.ol.np	Method	AAT/NAP
Start	1	End	2146
GI	7487521	Score	531
Exons	1..83, 430..574, 689..865, 1949..2146		
GI Descrip.	hypothetical protein T29F13.10 - Arabidopsis thaliana gi 3132476 gb AAC16265.1 (AC003096) unknown protein		

[Arabidopsis thaliana]

Seq. No.	56071	Seq. ID	OJ000313_16.0419.C32
Gene No.	117351	Strand	-
Start	1	End	2413
Name	OJ000313_16.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	1	End	2176
GI	none	Score	83
Exons	1..84, 2..88, 425..574, 430..576, 432..578, 692..868, 693..866, 694..867, 1904..2083, 1950..2114, 2054..2176, 2055..2147		

Seq. No.	56071	Seq. ID	OJ000313_16.0419.C32
Gene No.	117351	Strand	-
Start	1	End	2413
Name	OJ000313_16.0419.C32.o1.gs	Method	GENSCAN
Start	34	End	817
GI	none	Score	.87
Exons	34..83, 430..575, 693..817		

Seq. No.	56071	Seq. ID	OJ000313_16.0419.C32
Gene No.	117351	Strand	-
Start	1	End	2413
Name	OJ000313_16.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	430	End	2068
GI	none	Score	82
Exons	430..561, 431..574, 432..575, 692..868, 693..866, 709..867, 1938..2045, 1949..2068		

Seq. No.	56071	Seq. ID	OJ000313_16.0419.C32
Gene No.	117351	Strand	-
Start	1	End	2413
Name	OJ000313_16.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	431	End	2065
GI	none	Score	97
Exons	431..571, 462..575, 467..571, 468..572, 623..868, 675..866, 1938..2063, 1949..2065		

Seq. No.	56071	Seq. ID	OJ000313_16.0419.C32
Gene No.	117351	Strand	-
Start	1	End	2413
Name	OJ000313_16.0419.C32.o2.gs	Method	GENSCAN
Start	1874	End	2413
GI	none	Score	.81
Exons	1874..2413		

Seq. No.	56072	Seq. ID	OJ000313_16.0419.C33
Gene No.	117352	Strand	+
Start	1	End	1045
Name	OJ000313_16.0419.C33.o1.np	Method	AAT/NAP
Start	1	End	1045
GI	7510076	Score	105
Exons	1..61, 589..634, 810..1045		
GI Descrip.	hypothetical protein Y50E8A.i - Caenorhabditis elegans		

Seq. No.	56072	Seq. ID	OJ000313_16.0419.C33
Gene No.	117353	Strand	+
Start	2172	End	2589

Name	OJ000313_16.0419.C33.o1.gp	Method	AAT/GAP
Start	2172	End	2589
GI	3762204	Score	790
Exons	2172..2589		
Seq. No.	56072	Seq. ID	OJ000313_16.0419.C33
Gene No.	117354	Strand	-
Start	4812	End	6509
Name	OJ000313_16.0419.C33.o2.gs	Method	GENSCAN
Start	4812	End	5744
GI	none	Score	.89
Exons	4812..5744		
Seq. No.	56072	Seq. ID	OJ000313_16.0419.C33
Gene No.	117354	Strand	-
Start	4812	End	6509
Name	OJ000313_16.0419.C33.o2.np	Method	AAT/NAP
Start	4821	End	6509
GI	3128213	Score	734
Exons	4821..5566, 6346..6509		
GI Descrip.	(AC004077) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	56072	Seq. ID	OJ000313_16.0419.C33
Gene No.	117354	Strand	-
Start	4812	End	6509
Name	OJ000313_16.0419.C33.o2.gp	Method	AAT/GAP
Start	5315	End	5789
GI	27875_1.R1084	Score	905
Exons	5315..5789		
GI Descrip.	'3128213 2.0e-20 (AC004077) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	56072	Seq. ID	OJ000313_16.0419.C33
Gene No.	117355	Strand	-
Start	6581	End	7643
Name	OJ000313_16.0419.C33.o1.ts	Method	TBLASTX:Soybean
Start	4848	End	5279
GI	none	Score	176
Exons	4848..5279, 4903..5175		
Seq. No.	56072	Seq. ID	OJ000313_16.0419.C33
Gene No.	117355	Strand	-
Start	6581	End	7643
Name	OJ000313_16.0419.C33.o3.tm	Method	TBLASTX:Maize
Start	4899	End	5345
GI	none	Score	69
Exons	4899..5018, 4906..5019, 5016..5177, 5020..5178, 5208..5345		
Seq. No.	56072	Seq. ID	OJ000313_16.0419.C33
Gene No.	117355	Strand	-
Start	6581	End	7643
Name	OJ000313_16.0419.C33.o1.tc	Method	TBLASTX:Cress
Start	5295	End	5570
GI	none	Score	108
Exons	5295..5570, 5311..5565		
Seq. No.	56072	Seq. ID	OJ000313_16.0419.C33

Gene No.	117355	Strand	-
Start	6581	End	7643
Name	OJ000313_16.0419.C33.o1.tw	Method	TBLASTX:Wheat
Start	5394	End	5751
GI	none	Score	206
Exons	5394..5567, 5395..5562, 5529..5567, 5692..5751, 5703..5750		

Seq. No.	56072	Seq. ID	OJ000313_16.0419.C33
Gene No.	117355	Strand	-
Start	6581	End	7643
Name	OJ000313_16.0419.C33.o2.tm	Method	TBLASTX:Maize
Start	5394	End	5748
GI	none	Score	210
Exons	5394..5570, 5395..5568, 5692..5748, 5703..5747		

Seq. No.	56072	Seq. ID	OJ000313_16.0419.C33
Gene No.	117355	Strand	-
Start	6581	End	7643
Name	OJ000313_16.0419.C33.o3.np	Method	AAT/NAP
Start	6516	End	7643
GI	5734747	Score	219
Exons	6516..6585, 6778..7013, 7538..7643		
GI Descrip.	(AC007651) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56072	Seq. ID	OJ000313_16.0419.C33
Gene No.	117355	Strand	-
Start	6581	End	7643
Name	OJ000313_16.0419.C33.o3.gs	Method	GENSCAN
Start	6581	End	7580
GI	none	Score	.49
Exons	6581..6585, 6894..7028, 7547..7580		

Seq. No.	56072	Seq. ID	OJ000313_16.0419.C33
Gene No.	117355	Strand	-
Start	6581	End	7643
Name	OJ000313_16.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	6757	End	7641
GI	none	Score	94
Exons	6757..6879, 6778..7029, 6779..7030, 7535..7633, 7545..7640, 7546..7641		

Seq. No.	56073	Seq. ID	OJ000313_16.0419.C35
Gene No.	117356	Strand	+
Start	559	End	666
Name	OJ000313_16.0419.C35.o1.gs	Method	GENSCAN
Start	559	End	666
GI	none	Score	.5
Exons	559..666		

Seq. No.	56074	Seq. ID	OJ000313_16.0419.C36
Gene No.	117357	Strand	-
Start	6	End	152
Name	OJ000313_16.0419.C36.o1.gs	Method	GENSCAN
Start	6	End	152
GI	none	Score	.58
Exons	6..152		

Seq. No.	56075	Seq. ID	OJ000313_16.0419.C37
Gene No.	117358	Strand	+
Start	857	End	1093
Name	OJ000313_16.0419.C37.o1.gp	Method	AAT/GAP
Start	857	End	1093
GI	8022_1.R1084	Score	279
Exons	857..1093		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-37 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	56075	Seq. ID	OJ000313_16.0419.C37
Gene No.	117359	Strand	-
Start	1448	End	1530
Name	OJ000313_16.0419.C37.o2.gp	Method	AAT/GAP
Start	1448	End	1530
GI	38012_1.R1084	Score	88
Exons	1448..1530		
GI Descrip.	'4097947/gb U72255 OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	56076	Seq. ID	OJ000313_16.0419.C38
Gene No.	117360	Strand	-
Start	91	End	559
Name	OJ000313_16.0419.C38.o1.gs	Method	GENSCAN
Start	91	End	559
GI	none	Score	.66
Exons	91..201, 496..559		

Seq. No.	56077	Seq. ID	OJ000313_16.0419.C39
Gene No.	117361	Strand	+
Start	1	End	1922
Name	OJ000313_16.0419.C39.o1.np	Method	AAT/NAP
Start	1	End	1922
GI	7268194	Score	152
Exons	1..45, 394..482, 580..627, 768..901, 1876..1922		
GI Descrip.	(AL161492) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56077	Seq. ID	OJ000313_16.0419.C39
Gene No.	117361	Strand	+
Start	1	End	1922
Name	OJ000313_16.0419.C39.o1.gs	Method	GENSCAN
Start	49	End	857
GI	none	Score	.75
Exons	49..121, 328..482, 580..627, 768..857		

Seq. No.	56077	Seq. ID	OJ000313_16.0419.C39
Gene No.	117361	Strand	+
Start	1	End	1922
Name	OJ000313_16.0419.C39.o1.tm	Method	TBLASTX:Maize
Start	1338	End	1756
GI	none	Score	89
Exons	1338..1412, 1473..1559, 1475..1564, 1477..1560, 1478..1564, 1626..1754, 1643..1756		

Seq. No.	56078	Seq. ID	OJ000313_16.0419.C40
Gene No.	117362	Strand	+
Start	268	End	1302

Name	OJ000313_16.0419.C40.o1.gs	Method	GENSCAN
Start	268	End	1302
GI	none	Score	.68
Exons	268..511, 672..733, 1242..1302		
Seq. No.	56079	Seq. ID	OJ000313_16.0419.C46
Gene No.	117363	Strand	+
Start	1098	End	1523
Name	OJ000313_16.0419.C46.o1.gs	Method	GENSCAN
Start	1098	End	1523
GI	none	Score	.58
Exons	1098..1523		
Seq. No.	56079	Seq. ID	OJ000313_16.0419.C46
Gene No.	117364	Strand	+
Start	1557	End	4783
Name	OJ000313_16.0419.C46.o1.np	Method	AAT/NAP
Start	1557	End	4783
GI	5852093	Score	77
Exons	1557..1593, 2931..3043, 3785..3853, 4713..4783		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		
Seq. No.	56079	Seq. ID	OJ000313_16.0419.C46
Gene No.	117365	Strand	-
Start	2132	End	3978
Name	OJ000313_16.0419.C46.o2.np	Method	AAT/NAP
Start	2132	End	3978
GI	5852093	Score	95
Exons	2132..2173, 3872..3978		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		
Seq. No.	56080	Seq. ID	OJ000313_16.0419.C47
Gene No.	117366	Strand	+
Start	3071	End	3438
Name	OJ000313_16.0419.C47.o1.np	Method	AAT/NAP
Start	3071	End	3438
GI	6715717	Score	95
Exons	3071..3288, 3319..3438		
GI Descrip.	(AC016447) putative zinc finger protein [Arabidopsis thaliana]		
Seq. No.	56080	Seq. ID	OJ000313_16.0419.C47
Gene No.	117367	Strand	-
Start	1972	End	3370
Name	OJ000313_16.0419.C47.o1.gs	Method	GENSCAN
Start	1972	End	3370
GI	none	Score	.82
Exons	1972..2115, 3221..3370		
Seq. No.	56080	Seq. ID	OJ000313_16.0419.C47
Gene No.	117368	Strand	
Start	3316	End	3438
Name	OJ000313_16.0419.C47.o1.tm	Method	TBLASTX:Maize
Start	3316	End	3438
GI	none	Score	205
Exons	3316..3438, 3317..3436		
Seq. No.	56081	Seq. ID	OJ000313_16.0419.C52

Gene No.	117369	Strand	-
Start	1	End	777
Name	OJ000313_16.0419.C52.ol.gp	Method	AAT/GAP
Start	1	End	586
GI	22234_1.R1084	Score	192
Exons	1..26, 484..586		
GI Descrip.	'1620896/dbj BAA13507 8.0e-94 (D87956) protein involved in sexual development [Schizosaccharomyces pombe] >gi_2408048_emb_CAB16251 (Z99164) hypothetical protein [Schizosaccharomyces pombe]'		

Seq. No.	56081	Seq. ID	OJ000313_16.0419.C52
Gene No.	117369	Strand	-
Start	1	End	777
Name	OJ000313_16.0419.C52.ol.np	Method	AAT/NAP
Start	1	End	777
GI	7385111	Score	101
Exons	1..26, 484..579, 746..777		
GI Descrip.	(AF221849) FL10 [Mus musculus]		

Seq. No.	56082	Seq. ID	OJ000313_16.0419.C53
Gene No.	117370	Strand	+
Start	671	End	941
Name	OJ000313_16.0419.C53.ol.gs	Method	GENSCAN
Start	671	End	941
GI	none	Score	.74
Exons	671..736, 891..941		

Seq. No.	56082	Seq. ID	OJ000313_16.0419.C53
Gene No.	117371	Strand	-
Start	1097	End	3789
Name	OJ000313_16.0419.C53.ol.gp	Method	AAT/GAP
Start	1097	End	3404
GI	uC-osflm202106e04b1	Score	788
Exons	1097..1127, 1635..1758, 2366..2612, 3352..3404		
GI Descrip.	'5734747/gb AAD50012.1 AC007651_7 3.0e-33 (AC007651) Hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	56082	Seq. ID	OJ000313_16.0419.C53
Gene No.	117371	Strand	-
Start	1097	End	3789
Name	OJ000313_16.0419.C53.ol.tm	Method	TBLASTX:Maize
Start	1639	End	2615
GI	none	Score	177
Exons	1639..1761, 1640..1759, 2337..2447, 2342..2446, 2444..2524, 2507..2614, 2508..2615		

Seq. No.	56082	Seq. ID	OJ000313_16.0419.C53
Gene No.	117371	Strand	-
Start	1097	End	3789
Name	OJ000313_16.0419.C53.ol.ts	Method	TBLASTX:Soybean
Start	1645	End	2615
GI	none	Score	82
Exons	1645..1761, 1649..1753, 2342..2455, 2370..2456, 2444..2614, 2445..2615, 2454..2615		

Seq. No.	56082	Seq. ID	OJ000313_16.0419.C53
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Gene No.	117371	Strand	-
Start	1097	End	3789
Name	OJ000313_16.0419.C53.o1.np	Method	AAT/NAP
Start	1668	End	3789
GI	5734747	Score	184
Exons	1668..1758, 2366..2447, 2529..2625, 3657..3789		
GI Descrip.	(AC007651) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56082	Seq. ID	OJ000313_16.0419.C53
Gene No.	117371	Strand	-
Start	1097	End	3789
Name	OJ000313_16.0419.C53.o2.gs	Method	GENSCAN
Start	2577	End	3416
GI	none	Score	.73
Exons	2577..2612, 3038..3058, 3156..3416		

Seq. No.	56083	Seq. ID	OJ000313_16.0419.C54
Gene No.	117372	Strand	+
Start	1	End	3800
Name	OJ000313_16.0419.C54.o1.np	Method	AAT/NAP
Start	1	End	1665
GI	4835763	Score	737
Exons	1..84, 135..274, 448..518, 644..938, 1036..1325, 1611..1665		
GI Descrip.	(AC007202) T8K14.13 [Arabidopsis thaliana]		

Seq. No.	56083	Seq. ID	OJ000313_16.0419.C54
Gene No.	117372	Strand	+
Start	1	End	3800
Name	OJ000313_16.0419.C54.o1.gp	Method	AAT/GAP
Start	5	End	888
GI	LIB3433-060-P1-K1-H4	Score	859
Exons	5..59, 158..274, 448..518, 644..888		
GI Descrip.	'4585976/gb AAD25612.1 AC005287_14 1.0e-43 (AC005287) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	56083	Seq. ID	OJ000313_16.0419.C54
Gene No.	117372	Strand	+
Start	1	End	3800
Name	OJ000313_16.0419.C54.o1.gs	Method	GENSCAN
Start	158	End	3800
GI	none	Score	.62
Exons	158..274, 448..518, 644..938, 1036..1325, 1837..1905, 2109..2158, 3379..3800		

Seq. No.	56083	Seq. ID	OJ000313_16.0419.C54
Gene No.	117372	Strand	+
Start	1	End	3800
Name	OJ000313_16.0419.C54.o2.gp	Method	AAT/GAP
Start	1027	End	1829
GI	uC-osflcyp101c08b1	Score	970
Exons	1027..1325, 1611..1829		
GI Descrip.	'4835763/gb AAD30230.1 AC007202_12 6.0e-38 (AC007202) T8K14.13 [Arabidopsis thaliana]'		

Seq. No.	56083	Seq. ID	OJ000313_16.0419.C54
Gene No.	117373	Strand	-
Start	2188	End	2590

Name	OJ000313_16.0419.C54.o1.tm	Method	TBLASTX:Maize
Start	2	End	1671
GI	none	Score	73
Exons	2..58, 3..62, 155..274, 158..277, 160..285, 442..519, 460..519, 461..520, 596..694, 597..719, 633..728, 640..729, 706..909, 723..944, 723..932, 728..943, 1028..1135, 1032..1325, 1036..1326, 1036..1326, 1609..1671, 1610..1666		

Seq. No.	56083	Seq. ID	OJ000313_16.0419.C54
Gene No.	117373	Strand	-
Start	2188	End	2590
Name	OJ000313_16.0419.C54.o1.ts	Method	TBLASTX:Soybean
Start	478	End	1128
GI	none	Score	78
Exons	478..519, 603..677, 680..781, 681..944, 699..899, 815..943, 1036..1128, 1044..1124		

Seq. No.	56083	Seq. ID	OJ000313_16.0419.C54
Gene No.	117373	Strand	-
Start	2188	End	2590
Name	OJ000313_16.0419.C54.o1.tc	Method	TBLASTX:Cress
Start	698	End	1674
GI	none	Score	271
Exons	698..790, 699..944, 815..943, 1035..1142, 1036..1326, 1036..1326, 1564..1674		

Seq. No.	56083	Seq. ID	OJ000313_16.0419.C54
Gene No.	117373	Strand	-
Start	2188	End	2590
Name	OJ000313_16.0419.C54.o2.ts	Method	TBLASTX:Soybean
Start	1129	End	1683
GI	none	Score	202
Exons	1129..1326, 1163..1285, 1203..1325, 1540..1683		

Seq. No.	56083	Seq. ID	OJ000313_16.0419.C54
Gene No.	117373	Strand	-
Start	2188	End	2590
Name	OJ000313_16.0419.C54.o3.gp	Method	AAT/GAP
Start	2188	End	2590
GI	none	Score	784
Exons	2188..2590		

Seq. No.	56084	Seq. ID	OJ000313_16.0419.C55
Gene No.	117374	Strand	+
Start	266	End	738
Name	OJ000313_16.0419.C55.o1.gs	Method	GENSCAN
Start	266	End	738
GI	none	Score	.98
Exons	266..353, 554..738		

Seq. No.	56085	Seq. ID	OJ000313_16.0419.C56
Gene No.	117375	Strand	-
Start	165	End	267
Name	OJ000313_16.0419.C56.o1.gp	Method	AAT/GAP
Start	165	End	267
GI	LIB3477-003-P1-K1-E9	Score	117
Exons	165..267		

GI Descrip. '2498586/sp|Q40638|MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY
S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza
sativa]'

Seq. No.	56086	Seq. ID	OJ000313_16.0419.C57
Gene No.	117376	Strand	+
Start	1234	End	2946
Name	OJ000313_16.0419.C57.o1.gs	Method	GENSCAN
Start	1234	End	2946
GI	none	Score	.52
Exons	1234..1258, 1480..1555, 2594..2631, 2722..2946		

Seq. No.	56087	Seq. ID	OJ000313_16.0419.C58
Gene No.	117377	Strand	+
Start	3341	End	4386
Name	OJ000313_16.0419.C58.o1.gp	Method	AAT/GAP
Start	3341	End	4386
GI	845_1.R1084	Score	.2037
Exons	3341..4386		
GI Descrip.	'2944088 1.0e-104 (AF050102) glutathione s-transferase [Oryza sativa]'		

Seq. No.	56087	Seq. ID	OJ000313_16.0419.C58
Gene No.	117378	Strand	-
Start	1432	End	4252
Name	OJ000313_16.0419.C58.o1.gs	Method	GENSCAN
Start	1432	End	4252
GI	none	Score	.58
Exons	1432..1509, 3080..3231, 3474..3607, 3711..4252		

Seq. No.	56087	Seq. ID	OJ000313_16.0419.C58
Gene No.	117378	Strand	-
Start	1432	End	4252
Name	OJ000313_16.0419.C58.o1.np	Method	AAT/NAP
Start	3560	End	4252
GI	7447301	Score	1159
Exons	3560..4252		
GI Descrip.	glutathione transferase (EC 2.5.1.18) - rice gi 2944088 gb AAC05216.1 (AF050102) glutathione s-transferase [Oryza sativa]		

Seq. No.	56087	Seq. ID	OJ000313_16.0419.C58
Gene No.	117379	Strand	-
Start	5744	End	7648
Name	OJ000313_16.0419.C58.o2.tm	Method	TBLASTX:Maize
Start	3488	End	3751
GI	none	Score	116
Exons	3488..3751, 3555..3743		

Seq. No.	56087	Seq. ID	OJ000313_16.0419.C58
Gene No.	117379	Strand	-
Start	5744	End	7648
Name	OJ000313_16.0419.C58.o1.ts	Method	TBLASTX:Soybean
Start	3551	End	4237
GI	none	Score	112
Exons	3551..3751, 3552..3746, 3818..3925, 3870..3941, 3989..4237, 4020..4103, 4167..4220		

Seq. No.	56087	Seq. ID	OJ000313_16.0419.C58
Gene No.	117379	Strand	-
Start	5744	End	7648
Name	OJ000313_16.0419.C58.o1.tc	Method	TBLASTX:Cress
Start	3554	End	4237
GI	none	Score	96
Exons	3554..3751, 3555..3740, 3815..3925, 3864..3941, 3989..4237, 4020..4220		

Seq. No.	56087	Seq. ID	OJ000313_16.0419.C58
Gene No.	117379	Strand	-
Start	5744	End	7648
Name	OJ000313_16.0419.C58.o1.tm	Method	TBLASTX:Maize
Start	3818	End	4258
GI	none	Score	58
Exons	3818..3925, 3870..3935, 3876..3932, 3986..4258, 3987..4103, 4167..4220		

Seq. No.	56087	Seq. ID	OJ000313_16.0419.C58
Gene No.	117379	Strand	-
Start	5744	End	7648
Name	OJ000313_16.0419.C58.o1.tw	Method	TBLASTX:Wheat
Start	3986	End	4240
GI	none	Score	121
Exons	3986..4159, 3987..4103, 4163..4240, 4163..4237		

Seq. No.	56087	Seq. ID	OJ000313_16.0419.C58
Gene No.	117379	Strand	-
Start	5744	End	7648
Name	OJ000313_16.0419.C58.o2.gs	Method	GENSCAN
Start	5744	End	7648
GI	none	Score	.75
Exons	5744..5915, 6866..6911, 7575..7648		

Seq. No.	56088	Seq. ID	OJ000313_16.0419.C59
Gene No.	117380	Strand	+
Start	535	End	3760
Name	OJ000313_16.0419.C59.o1.gs	Method	GENSCAN
Start	535	End	3647
GI	none	Score	.44
Exons	535..736, 1974..2210, 2287..2421, 2864..2987, 3259..3479, 3628..3647		

Seq. No.	56088	Seq. ID	OJ000313_16.0419.C59
Gene No.	117380	Strand	+
Start	535	End	3760
Name	OJ000313_16.0419.C59.o1.gp	Method	AAT/GAP
Start	536	End	2499
GI	51025.1.R1084	Score	1101
Exons	536..679, 1974..2210, 2287..2499		
GI Descrip.	'6041851/gb AAF02160.1 AC009853_20 3.0e-18 (AC009853) unknown protein [Arabidopsis thaliana]'		

Seq. No.	56088	Seq. ID	OJ000313_16.0419.C59
Gene No.	117380	Strand	+
Start	535	End	3760

Name	OJ000313_16.0419.C59.o1.np	Method	AAT/NAP
Start	1955	End	3444
GI	6041851	Score	509
Exons	1955..2225, 2269..2557, 3088..3180, 3259..3444		
GI Descrip.	(AC009853) unknown protein [Arabidopsis thaliana]		

Seq. No.	56088	Seq. ID	OJ000313_16.0419.C59
Gene No.	117380	Strand	+
Start	535	End	3760
Name	OJ000313_16.0419.C59.o2.gp	Method	AAT/GAP
Start	3342	End	3760
GI	none	Score	723
Exons	3342..3760		

Seq. No.	56088	Seq. ID	OJ000313_16.0419.C59
Gene No.	117381	Strand	-
Start	3844	End	4877
Name	OJ000313_16.0419.C59.o1.tm	Method	TBLASTX:Maize
Start	1964	End	2560
GI	none	Score	94
Exons	1964..1993, 1990..2103, 1993..2211, 1994..2179, 1997..2215, 1998..2234, 2274..2339, 2281..2331, 2281..2424, 2347..2514, 2347..2529, 2357..2536, 2498..2536, 2515..2556, 2516..2560, 2522..2560		

Seq. No.	56088	Seq. ID	OJ000313_16.0419.C59
Gene No.	117381	Strand	-
Start	3844	End	4877
Name	OJ000313_16.0419.C59.o1.ts	Method	TBLASTX:Soybean
Start	1971	End	3467
GI	none	Score	76
Exons	1971..2111, 1971..2108, 1976..2146, 1978..2145, 2144..2179, 2156..2215, 2383..2475, 2384..2437, 2416..2487, 2488..2556, 2513..2560, 3072..3164, 3072..3176, 3088..3183, 3255..3386, 3258..3344, 3265..3393, 3414..3467, 3415..3453		

Seq. No.	56088	Seq. ID	OJ000313_16.0419.C59
Gene No.	117381	Strand	-
Start	3844	End	4877
Name	OJ000313_16.0419.C59.o1.tc	Method	TBLASTX:Cress
Start	2516	End	3438
GI	none	Score	67
Exons	2516..2560, 3087..3176, 3088..3183, 3265..3342, 3403..3438		

Seq. No.	56088	Seq. ID	OJ000313_16.0419.C59
Gene No.	117381	Strand	-
Start	3844	End	4877
Name	OJ000313_16.0419.C59.o2.tm	Method	TBLASTX:Maize
Start	3118	End	3629
GI	none	Score	91
Exons	3118..3183, 3118..3180, 3257..3418, 3258..3416, 3262..3420, 3417..3461, 3418..3462, 3483..3629		

Seq. No.	56088	Seq. ID	OJ000313_16.0419.C59
Gene No.	117381	Strand	-
Start	3844	End	4877
Name	OJ000313_16.0419.C59.o2.gs	Method	GENSCAN

Start	3844	End	4877
GI	none	Score	.44
Exons	3844..3959, 4748..4877		

Seq. No.	56089	Seq. ID	OJ000313_16.0419.C60
Gene No.	117382	Strand	+
Start	1	End	2269
Name	OJ000313_16.0419.C60.o1.gp	Method	AAT/GAP
Start	1	End	97
GI	LIB3432-057-P1-K1-D10	Score	185
Exons	1..97		
GI Descrip.	'2570515 1.0e-43 (AF022740) glycolate oxidase [Oryza sativa]'		

Seq. No.	56089	Seq. ID	OJ000313_16.0419.C60
Gene No.	117382	Strand	+
Start	1	End	2269
Name	OJ000313_16.0419.C60.o1.np	Method	AAT/NAP
Start	1	End	1780
GI	7431424	Score	1065
Exons	1..46, 197..244, 377..454, 551..675, 779..845, 944..1006, 1130..1199, 1299..1504, 1595..1780		
GI Descrip.	probable (S)-2-hydroxy-acid oxidase (EC 1.1.3.15), peroxisomal - rice gi 2570515 gb AAB82143.1 (AF022740) glycolate oxidase [Oryza sativa]		

Seq. No.	56089	Seq. ID	OJ000313_16.0419.C60
Gene No.	117382	Strand	+
Start	1	End	2269
Name	OJ000313_16.0419.C60.o2.gp	Method	AAT/GAP
Start	197	End	2269
GI	803_1.R1084	Score	2198
Exons	197..244, 377..454, 551..675, 779..845, 944..1006, 1130..1199, 1299..1504, 1595..2131, 2240..2269		
GI Descrip.	'3075399 3.0e-16 (AC004484) SF16-like protein [Arabidopsis thaliana]'		

Seq. No.	56089	Seq. ID	OJ000313_16.0419.C60
Gene No.	117382	Strand	+
Start	1	End	2269
Name	OJ000313_16.0419.C60.o1.gs	Method	GENSCAN
Start	551	End	1783
GI	none	Score	.94
Exons	551..675, 779..845, 944..1006, 1130..1199, 1299..1504, 1595..1783		

Seq. No.	56089	Seq. ID	OJ000313_16.0419.C60
Gene No.	117383	Strand	+
Start	2778	End	3023
Name	OJ000313_16.0419.C60.o1.tm	Method	TBLASTX:Maize
Start	358	End	1764
GI	none	Score	69
Exons	358..453, 376..456, 377..457, 545..676, 548..676, 553..678, 555..677, 601..684, 776..844, 777..845, 778..852, 941..1006, 943..1014, 1127..1210, 1129..1209, 1283..1405, 1288..1500, 1301..1507, 1429..1497, 1594..1764, 1595..1753		

Seq. No.	56089	Seq. ID	OJ000313_16.0419.C60
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Gene No.	117383	Strand	+
Start	2778	End	3023
Name	OJ000313_16.0419.C60.o1.tc	Method	TBLASTX:Cress
Start	376	End	1480
GI	none	Score	136
Exons	376..459, 377..457, 389..463, 545..676, 553..678, 601..684, 776..841, 777..845, 780..860, 781..861, 941..1006, 946..1008, 1127..1210, 1129..1209, 1294..1479, 1298..1480		

Seq. No.	56089	Seq. ID	OJ000313_16.0419.C60
Gene No.	117383	Strand	+
Start	2778	End	3023
Name	OJ000313_16.0419.C60.o1.ts	Method	TBLASTX:Soybean
Start	376	End	1753
GI	none	Score	136
Exons	376..459, 377..457, 542..673, 545..676, 601..678, 776..844, 777..845, 780..860, 781..846, 941..1006, 949..1008, 1127..1210, 1129..1209, 1288..1497, 1301..1507, 1594..1752, 1595..1753		

Seq. No.	56089	Seq. ID	OJ000313_16.0419.C60
Gene No.	117383	Strand	+
Start	2778	End	3023
Name	OJ000313_16.0419.C60.o1.tw	Method	TBLASTX:Wheat
Start	925	End	1198
GI	none	Score	62
Exons	925..1029, 925..1008, 941..1030, 968..1009, 1118..1198, 1126..1197		

Seq. No.	56089	Seq. ID	OJ000313_16.0419.C60
Gene No.	117383	Strand	+
Start	2778	End	3023
Name	OJ000313_16.0419.C60.o2.tc	Method	TBLASTX:Cress
Start	1594	End	1753
GI	none	Score	198
Exons	1594..1752, 1595..1753		

Seq. No.	56089	Seq. ID	OJ000313_16.0419.C60
Gene No.	117383	Strand	+
Start	2778	End	3023
Name	OJ000313_16.0419.C60.o2.np	Method	AAT/NAP
Start	2778	End	3023
GI	7106516	Score	170
Exons	2778..3023		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	56090	Seq. ID	OJ000313_16.0419.C61
Gene No.	117384	Strand	+
Start	225	End	407
Name	OJ000313_16.0419.C61.o1.gs	Method	GENSCAN
Start	225	End	407
GI	none	Score	.88
Exons	225..407		

Seq. No.	56091	Seq. ID	OJ000313_16.0419.C62
Gene No.	117385	Strand	+
Start	81	End	570
Name	OJ000313_16.0419.C62.o1.gs	Method	GENSCAN

Start 81
GI none
Exons 81..535

End 535
Score .95

Seq. No. 56091
Gene No. 117385
Start 81
Name OJ000313_16.0419.C62.o1.tm
Start 249
GI none
Exons 249..338, 261..329, 262..348, 449..535, 478..570, 482..538

Seq. ID OJ000313_16.0419.C62
Strand +
End 570
Method TBLASTX:Maize
End 570
Score 114

Seq. No. 56092
Gene No. 117386
Start 2642
Name OJ000313_17.0419.C2.o1.np
Start 2642
GI 6552732
Exons 2642..3317, 4250..4367, 4458..4620
GI Descrip. (AC013482) T26F17.10 [Arabidopsis thaliana]

Seq. ID OJ000313_17.0419.C2
Strand +
End 4757
Method AAT/NAP
End 4620
Score 878

Seq. No. 56092
Gene No. 117386
Start 2642
Name OJ000313_17.0419.C2.o1.tm
Start 2710
GI none
Exons 2710..2964, 2711..3184, 3046..3183

Seq. ID OJ000313_17.0419.C2
Strand +
End 4757
Method TBLASTX:Maize
End 3184
Score 588

Seq. No. 56092
Gene No. 117386
Start 2642
Name OJ000313_17.0419.C2.o1.tc
Start 2719
GI none
Exons 2719..2814, 2720..2953

Seq. ID OJ000313_17.0419.C2
Strand +
End 4757
Method TBLASTX:Cress
End 2953
Score 230

Seq. No. 56092
Gene No. 117386
Start 2642
Name OJ000313_17.0419.C2.o1.ts
Start 2720
GI none
Exons 2720..3073, 2722..2964, 3095..3217, 3103..3216, 3215..3274, 3217..3273

Seq. ID OJ000313_17.0419.C2
Strand +
End 4757
Method TBLASTX:Soybean
End 3274
Score 361

Seq. No. 56092
Gene No. 117386
Start 2642
Name OJ000313_17.0419.C2.o2.ts
Start 4242
GI none
Exons 4242..4364, 4243..4365, 4452..4508, 4453..4617, 4551..4616, 4671..4757

Seq. ID OJ000313_17.0419.C2
Strand +
End 4757
Method TBLASTX:Soybean
End 4757
Score 169

Seq. No. 56092
Seq. ID OJ000313_17.0419.C2

Gene No.	117386	Strand	+
Start	2642	End	4757
Name	OJ000313_17.0419.C2.o1.gp	Method	AAT/GAP
Start	4260	End	4729
GI	none	Score	545
Exons	4260..4367, 4458..4619, 4697..4729		

Seq. No.	56092	Seq. ID	OJ000313_17.0419.C2
Gene No.	117386	Strand	+
Start	2642	End	4757
Name	OJ000313_17.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	4280	End	4607
GI	none	Score	57
Exons	4280..4345, 4281..4367, 4282..4365, 4452..4607, 4453..4605, 4460..4606		

Seq. No.	56092	Seq. ID	OJ000313_17.0419.C2
Gene No.	117386	Strand	+
Start	2642	End	4757
Name	OJ000313_17.0419.C2.o2.tc	Method	TBLASTX:Cress
Start	4297	End	4617
GI	none	Score	87
Exons	4297..4362, 4302..4379, 4438..4617		

Seq. No.	56093	Seq. ID	OJ000313_17.0419.C3
Gene No.	117387	Strand	+
Start	1	End	2541
Name	OJ000313_17.0419.C3.o1.gp	Method	AAT/GAP
Start	1	End	213
GI	none	Score	397
Exons	1..213		

Seq. No.	56093	Seq. ID	OJ000313_17.0419.C3
Gene No.	117387	Strand	+
Start	1	End	2541
Name	OJ000313_17.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	2541
GI	6069646	Score	97
Exons	1..50, 2224..2541		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	56093	Seq. ID	OJ000313_17.0419.C3
Gene No.	117388	Strand	+
Start	2662	End	2877
Name	OJ000313_17.0419.C3.o1.gs	Method	GENSCAN
Start	2662	End	2877
GI	none	Score	.42
Exons	2662..2877		

Seq. No.	56093	Seq. ID	OJ000313_17.0419.C3
Gene No.	117389	Strand	-
Start	2736	End	2978
Name	OJ000313_17.0419.C3.o2.np	Method	AAT/NAP

Start	2736	End	2978
GI	6069646	Score	146
Exons	2736..2978		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	56094	Seq. ID	OJ000313_17.0419.C4
Gene No.	117390	Strand	+
Start	480	End	2239
Name	OJ000313_17.0419.C4.o1.gs	Method	GENSCAN
Start	480	End	2239
GI	none	Score	.89
Exons	480..668, 2147..2239		

Seq. No.	56094	Seq. ID	OJ000313_17.0419.C4
Gene No.	117391	Strand	+
Start	3010	End	3232
Name	OJ000313_17.0419.C4.o1.gp	Method	AAT/GAP
Start	3010	End	3232
GI	LIB3432-023-P1-K1-F6	Score	361
Exons	3010..3232		
GI Descrip.	'3850581 1.0e-26 (AC005278) EST gb_N96383 comes from this gene. [Arabidopsis thaliana]'		

Seq. No.	56094	Seq. ID	OJ000313_17.0419.C4
Gene No.	117392	Strand	+
Start	6993	End	10189
Name	OJ000313_17.0419.C4.o3.gs	Method	GENSCAN
Start	6993	End	10189
GI	none	Score	.81
Exons	6993..7043, 7140..8612, 8811..9032, 9311..9427, 9506..10189		

Seq. No.	56094	Seq. ID	OJ000313_17.0419.C4
Gene No.	117393	Strand	-
Start	2701	End	3368
Name	OJ000313_17.0419.C4.o2.gs	Method	GENSCAN
Start	2701	End	3368
GI	none	Score	1
Exons	2701..3170, 3335..3368		

Seq. No.	56094	Seq. ID	OJ000313_17.0419.C4
Gene No.	117394	Strand	-
Start	10607	End	11800
Name	OJ000313_17.0419.C4.o3.ts	Method	TBLASTX:Soybean
Start	2824	End	2973
GI	none	Score	184
Exons	2824..2973		

Seq. No.	56094	Seq. ID	OJ000313_17.0419.C4
Gene No.	117394	Strand	-
Start	10607	End	11800
Name	OJ000313_17.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	10593	End	10816
GI	none	Score	47

Exons 10593..10634, 10601..10816, 10607..10786, 10713..10799

Seq. No.	56094	Seq. ID	OJ000313_17.0419.C4
Gene No.	117394	Strand	-
Start	10607	End	11800
Name	OJ000313_17.0419.C4.o1.np	Method	AAT/NAP
Start	10607	End	11800
GI	4544372	Score	571
Exons	10607..11800		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	56094	Seq. ID	OJ000313_17.0419.C4
Gene No.	117394	Strand	-
Start	10607	End	11800
Name	OJ000313_17.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	10622	End	11028
GI	none	Score	83
Exons	10622..10813, 10656..10838, 10789..11028, 10937..11020		

Seq. No.	56094	Seq. ID	OJ000313_17.0419.C4
Gene No.	117394	Strand	-
Start	10607	End	11800
Name	OJ000313_17.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	11188	End	11586
GI	none	Score	84
Exons	11188..11586, 11276..11482		

Seq. No.	56094	Seq. ID	OJ000313_17.0419.C4
Gene No.	117394	Strand	-
Start	10607	End	11800
Name	OJ000313_17.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	11209	End	11589
GI	none	Score	86
Exons	11209..11433, 11431..11589		

Seq. No.	56094	Seq. ID	OJ000313_17.0419.C4
Gene No.	117394	Strand	-
Start	10607	End	11800
Name	OJ000313_17.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	11356	End	11745
GI	none	Score	106
Exons	11356..11412, 11443..11550, 11584..11745		

Seq. No.	56095	Seq. ID	OJ000313_17.0419.C5
Gene No.	117395	Strand	-
Start	1	End	1599
Name	OJ000313_17.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	1599
GI	7248394	Score	1302
Exons	1..597, 865..1599		
GI Descrip.	(AP001389) ESTs C97394(C60113), AU075824(R0165), D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No. 56095
 Gene No. 117395
 Start 1
 Name OJ000313_17.0419.C5.o1.tm
 Start 2
 GI none
 Exons 2..460, 3..125, 65..460

Seq. ID OJ000313_17.0419.C5
 Strand -
 End 1599
 Method TBLASTX:Maize
 End 460
 Score 74

Seq. No. 56095
 Gene No. 117395
 Start 1
 Name OJ000313_17.0419.C5.o2.tw
 Start 26
 GI none
 Exons 26..328

Seq. ID OJ000313_17.0419.C5
 Strand -
 End 1599
 Method TBLASTX:Wheat
 End 328
 Score 190

Seq. No. 56095
 Gene No. 117395
 Start 1
 Name OJ000313_17.0419.C5.o1.gs
 Start 84
 GI none
 Exons 84..1135

Seq. ID OJ000313_17.0419.C5
 Strand -
 End 1599
 Method GENSCAN
 End 1135
 Score .43

Seq. No. 56095
 Gene No. 117395
 Start 1
 Name OJ000313_17.0419.C5.o2.ts
 Start 155
 GI none
 Exons 155..385, 201..335

Seq. ID OJ000313_17.0419.C5
 Strand -
 End 1599
 Method TBLASTX:Soybean
 End 385
 Score 66

Seq. No. 56095
 Gene No. 117395
 Start 1
 Name OJ000313_17.0419.C5.o1.tw
 Start 329
 GI none
 Exons 329..673, 329..682, 330..674,

Seq. ID OJ000313_17.0419.C5
 Strand -
 End 1599
 Method TBLASTX:Wheat
 End 733
 Score 242
 589..675, 677..733, 687..728

Seq. No. 56095
 Gene No. 117395
 Start 1
 Name OJ000313_17.0419.C5.o2.tm
 Start 461
 GI none
 Exons 461..679, 462..674

Seq. ID OJ000313_17.0419.C5
 Strand -
 End 1599
 Method TBLASTX:Maize
 End 679
 Score 204

Seq. No. 56095
 Gene No. 117395
 Start 1
 Name OJ000313_17.0419.C5.o1.ts
 Start 530
 GI none
 Exons 530..664, 671..895

Seq. ID OJ000313_17.0419.C5
 Strand -
 End 1599
 Method TBLASTX:Soybean
 End 895
 Score 137

Seq. No. 56096

Seq. ID OJ000313_17.0419.C6

Gene No.	117396	Strand	-
Start	495	End	3251
Name	OJ000313_17.0419.C6.o2.np	Method	AAT/NAP
Start	495	End	1942
GI	7340868	Score	153
Exons	495..533, 1735..1942		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	56096	Seq. ID	OJ000313_17.0419.C6
Gene No.	117396	Strand	-
Start	495	End	3251
Name	OJ000313_17.0419.C6.o1.np	Method	AAT/NAP
Start	1595	End	3251
GI	7248393	Score	75
Exons	1595..1738, 3181..3251		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	56097	Seq. ID	OJ000313_17.0419.C12
Gene No.	117397	Strand	+
Start	1	End	390
Name	OJ000313_17.0419.C12.o1.gp	Method	AAT/GAP
Start	1	End	187
GI	uC-osflcyp081a04b1	Score	157
Exons	1..34, 125..187		
GI Descrip.	'5262201 emb CAB45798.1 2.0e-19 (AL080252) putative protein [Arabidopsis thaliana]'		

Seq. No.	56097	Seq. ID	OJ000313_17.0419.C12
Gene No.	117397	Strand	+
Start	1	End	390
Name	OJ000313_17.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	390
GI	7486868	Score	144
Exons	1..37, 128..214, 319..390		
GI Descrip.	hypothetical protein T12G13.120 - Arabidopsis thaliana gi 5262201 emb CAB45798.1 (AL080252) putative protein [Arabidopsis thaliana] gi 7267468 emb CAB81164.1 (AL161510) putative protein [Arabidopsis thaliana]		

Seq. No.	56097	Seq. ID	OJ000313_17.0419.C12
Gene No.	117397	Strand	+
Start	1	End	390
Name	OJ000313_17.0419.C12.o1.gs	Method	GENSCAN
Start	125	End	389
GI	none	Score	.64
Exons	125..214, 258..389		

Seq. No.	56097	Seq. ID	OJ000313_17.0419.C12
Gene No.	117398	Strand	-
Start	2075	End	3173
Name	OJ000313_17.0419.C12.o2.gs	Method	GENSCAN
Start	2075	End	3173
GI	none	Score	.75
Exons	2075..2461, 2541..2650, 2942..3173		

Seq. No.	56097	Seq. ID	OJ000313_17.0419.C12
Gene No.	117399	Strand	-

Start	3781	End	6000
Name	OJ000313_17.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	1	End	396
GI	none	Score	48
Exons	1..39, 5..34, 122..214, 122..214, 124..216, 308..394, 309..395, 316..396, 318..395		

Seq. No.	56097	Seq. ID	OJ000313_17.0419.C12
Gene No.	117399	Strand	-
Start	3781	End	6000
Name	OJ000313_17.0419.C12.o3.gs	Method	GENSCAN
Start	3781	End	5245
GI	none	Score	.69
Exons	3781..3959, 4316..4344, 4851..4927, 5036..5245		

Seq. No.	56097	Seq. ID	OJ000313_17.0419.C12
Gene No.	117399	Strand	-
Start	3781	End	6000
Name	OJ000313_17.0419.C12.o2.gp	Method	AAT/GAP
Start	4060	End	5073
GI	51163_1.R1084	Score	930
Exons	4060..4460, 4851..4927, 5036..5073		
GI Descrip.	'3548801 4.0e-12 (AC005313) putative transmembrane protein [Arabidopsis thaliana] >gi_4335768_gb_AAD17445_ (AC006284) putative integral membrane protein [Arabidopsis thaliana]'		

Seq. No.	56097	Seq. ID	OJ000313_17.0419.C12
Gene No.	117399	Strand	-
Start	3781	End	6000
Name	OJ000313_17.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	4181	End	5252
GI	none	Score	37
Exons	4181..4210, 4182..4214, 4304..4462, 4305..4463, 4341..4499, 4850..4930, 4850..4927, 5004..5252, 5034..5102, 5036..5242, 5059..5247		

Seq. No.	56097	Seq. ID	OJ000313_17.0419.C12
Gene No.	117399	Strand	-
Start	3781	End	6000
Name	OJ000313_17.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	4286	End	5252
GI	none	Score	139
Exons	4286..4462, 4326..4463, 4801..4848, 4844..4915, 4850..4927, 5010..5102, 5034..5099, 5036..5104, 5036..5113, 5114..5242, 5115..5252, 5131..5247		

Seq. No.	56097	Seq. ID	OJ000313_17.0419.C12
Gene No.	117399	Strand	-
Start	3781	End	6000
Name	OJ000313_17.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	4311	End	5255
GI	none	Score	133
Exons	4311..4466, 4313..4462, 4850..4927, 5010..5108, 5036..5110, 5117..5242, 5136..5255, 5157..5246		

Seq. No.	56097	Seq. ID	OJ000313_17.0419.C12
Gene No.	117399	Strand	-

Start	3781	End	6000
Name	OJ000313_17.0419.C12.o3.np	Method	AAT/NAP
Start	4319	End	6000
GI	6630552	Score	266
Exons	4319..4460, 4851..4927, 5036..5251, 5974..6000		
GI Descrip.	(AC011708) putative membrane protein [Arabidopsis thaliana]		

Seq. No.	56097	Seq. ID	OJ000313_17.0419.C12
Gene No.	117399	Strand	-
Start	3781	End	6000
Name	OJ000313_17.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	5066	End	5252
GI	none	Score	234
Exons	5066..5242, 5067..5252		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117400	Strand	+
Start	5225	End	5290
Name	OJ000313_17.0419.C13.o2.gp	Method	AAT/GAP
Start	5225	End	5290
GI	uC-osroM202011f01b1	Score	112
Exons	5225..5290		
GI Descrip.	'2623304 1.0e-16 (AC002409) similar to Medicago nodulin N21 [Arabidopsis thaliana]'		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117401	Strand	+
Start	6897	End	11319
Name	OJ000313_17.0419.C13.o3.gs	Method	GENSCAN
Start	6897	End	10298
GI	none	Score	.63
Exons	6897..6956, 7872..7984, 8398..8572, 9145..9280, 9784..10298		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117401	Strand	+
Start	6897	End	11319
Name	OJ000313_17.0419.C13.o5.gp	Method	AAT/GAP
Start	9246	End	9437
GI	5667165	Score	360
Exons	9246..9437		
GI Descrip.	5670155/gb AF161269.1 AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117401	Strand	+
Start	6897	End	11319
Name	OJ000313_17.0419.C13.o3.np	Method	AAT/NAP
Start	9522	End	11319
GI	6907086	Score	1497
Exons	9522..10278, 10336..10500, 10735..10875, 10950..11319		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117402	Strand	+
Start	19494	End	22664
Name	OJ000313_17.0419.C13.o5.gs	Method	GENSCAN
Start	19494	End	22401

GI	none	Score	.95
Exons	19494..19879, 21295..21395, 21491..21672, 22133..22231, 22309..22401		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117402	Strand	+
Start	19494	End	22664
Name	OJ000313_17.0419.C13.o5.np	Method	AAT/NAP
Start	19614	End	22528
GI	6647559	Score	449
Exons	19614..19878, 21281..21395, 21491..21672, 22133..22231, 22309..22528		

GI Descrip. PROBABLE INORGANIC PYROPHOSPHATASE (PYROPHOSPHATE PHOSPHO-HYDROLASE) (PPASE)

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117402	Strand	+
Start	19494	End	22664
Name	OJ000313_17.0419.C13.o6.gp	Method	AAT/GAP
Start	19677	End	22664
GI	4963_1.R1084	Score	1643
Exons	19677..19879, 21295..21395, 21491..21672, 22133..22231, 22309..22664		

GI Descrip. '5824411/emb|CAA93107.2| 2.0e-54 (Z68882) Similarity to Bovine inorganic pyrophosphatase (SW:IPYR_BOVIN); cDNA EST EMBL:D66533 comes from this gene; cDNA EST EMBL:D70345 comes from this gene; cDNA EST yk338a8.3 comes from this gene; cDNA EST yk338a8.5 comes '

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117403	Strand	-
Start	642	End	866
Name	OJ000313_17.0419.C13.o1.gs	Method	GENSCAN
Start	642	End	866
GI	none	Score	.99
Exons	642..866		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117404	Strand	-
Start	3903	End	6370
Name	OJ000313_17.0419.C13.o1.gp	Method	AAT/GAP
Start	3875	End	4634
GI	15115_1.R1084	Score	960
Exons	3875..4128, 4266..4417, 4513..4634		
GI Descrip.	'4056506 2.0e-26 (AC005896) nodulin-like protein [Arabidopsis thaliana]'		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117404	Strand	-
Start	3903	End	6370
Name	OJ000313_17.0419.C13.o2.np	Method	AAT/NAP
Start	3893	End	6370
GI	6552743	Score	787
Exons	3893..4128, 4266..4417, 4513..4922, 5018..5136, 5226..5288, 6180..6370		
GI Descrip.	(AC013482) T26F17.11 [Arabidopsis thaliana]		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117404	Strand	-
Start	3903	End	6370
Name	OJ000313_17.0419.C13.o2.gs	Method	GENSCAN
Start	3903	End	6370
GI	none	Score	.92
Exons	3903..4128, 4266..4417, 4513..4918, 5020..5136, 5226..5288, 6180..6370		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117405	Strand	-
Start	7593	End	8088
Name	OJ000313_17.0419.C13.o3.gp	Method	AAT/GAP
Start	7593	End	8088
GI	38782_1.R1084	Score	831
Exons	7593..8088		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117406	Strand	-
Start	16086	End	19175
Name	OJ000313_17.0419.C13.o4.gs	Method	GENSCAN
Start	16086	End	19175
GI	none	Score	.51
Exons	16086..16208, 17513..17675, 17942..18088, 18113..18290, 18389..18484, 18541..18720, 19076..19175		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117406	Strand	-
Start	16086	End	19175
Name	OJ000313_17.0419.C13.o4.np	Method	AAT/NAP
Start	18106	End	18363
GI	5091602	Score	382
Exons	18106..18363		
GI Descrip.	(AC007858) 10A19I.6 [Oryza sativa]		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.o2.tw	Method	TBLASTX:Wheat
Start	637	End	780
GI	none	Score	202
Exons	637..780, 642..764, 728..772		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.o5.tm	Method	TBLASTX:Maize
Start	637	End	780
GI	none	Score	212
Exons	637..780, 639..764, 728..772		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.o1.tm	Method	TBLASTX:Maize

Start	4059	End	4710
GI	none	Score	81
Exons	4059..4133, 4065..4130, 4266..4418, 4268..4417, 4499..4708, 4513..4710		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.ol.tc	Method	TBLASTX:Cress
Start	4265	End	5138
GI	none	Score	122
Exons	4265..4417, 4513..4572, 4570..4740, 4804..4926, 5019..5138		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.ol.ts	Method	TBLASTX:Soybean
Start	4355	End	6352
GI	none	Score	70
Exons	4355..4417, 4513..4608, 4573..4740, 4574..4732, 4807..4926, 4817..4921, 5019..5141, 5020..5136, 5225..5308, 6177..6341, 6179..6352		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.o3.tm	Method	TBLASTX:Maize
Start	4778	End	6378
GI	none	Score	148
Exons	4778..4921, 4783..4923, 5005..5136, 5019..5144, 5108..5170, 5220..5291, 5225..5290, 5235..5297, 6179..6370, 6180..6371, 6289..6378		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.ol.tw	Method	TBLASTX:Wheat
Start	4823	End	6358
GI	none	Score	89
Exons	4823..4918, 4823..4918, 4825..4926, 5019..5144, 5023..5145, 5225..5281, 6179..6307, 6183..6308, 6302..6358, 6306..6356		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	9569	End	22493
GI	none	Score	49
Exons	9569..9679, 9659..9736, 18683..18763, 18775..18792, 18819..18842, 19532..19564, 19565..19600, 19566..19601, 19616..19633, 19641..19880, 19649..19882, 19781..19885, 21274..21393, 21294..21401, 21317..21394, 21487..21672, 21490..21681, 22132..22233, 22133..22231, 22136..22234, 22306..22389, 22307..22402, 22307..22405, 22308..22409, 22308..22409, 22309..22410, 22407..22433, 22410..22493		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
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Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.o3.tw	Method	TBLASTX:Wheat
Start	19475	End	19741
GI	none	Score	180
Exons	19475..19741, 19563..19739		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.o2.tc	Method	TBLASTX:Cress
Start	19641	End	21576
GI	none	Score	333
Exons	19641..19880, 19655..19882, 21274..21393, 21282..21392, 21317..21394, 21323..21400, 21476..21517, 21486..21575, 21487..21576, 21487..21576		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.o2.ts	Method	TBLASTX:Soybean
Start	19652	End	19880
GI	none	Score	344
Exons	19652..19879, 19653..19880		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.o3.ts	Method	TBLASTX:Soybean
Start	21589	End	22407
GI	none	Score	117
Exons	21589..21669, 22132..22233, 22133..22231, 22318..22407		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.o3.tc	Method	TBLASTX:Cress
Start	22132	End	22400
GI	none	Score	170
Exons	22132..22233, 22133..22231, 22307..22393, 22309..22395, 22311..22400, 22314..22394		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.o6.np	Method	AAT/NAP
Start	22928	End	25827
GI	6751696	Score	103
Exons	22928..22946, 25292..25378, 25514..25827		
GI Descrip.	(AC018908) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.o4.tm	Method	TBLASTX:Maize
Start	25050	End	25282
GI	none	Score	190

Exons 25050..25253, 25058..25282, 25061..25282

Seq. No.	56098	Seq. ID	OJ000313_17.0419.C13
Gene No.	117407	Strand	-
Start	22928	End	25827
Name	OJ000313_17.0419.C13.o6.gs	Method	GENSCAN
Start	25064	End	25766
GI	none	Score	.81
Exons	25064..25766		

Seq. No.	56099	Seq. ID	OJ000313_17.0419.C14
Gene No.	117408	Strand	+
Start	1054	End	4602
Name	OJ000313_17.0419.C14.o1.gs	Method	GENSCAN
Start	1054	End	4584
GI	none	Score	.57
Exons	1054..1111, 2250..2336, 2833..2873, 3189..4584		

Seq. No.	56099	Seq. ID	OJ000313_17.0419.C14
Gene No.	117408	Strand	+
Start	1054	End	4602
Name	OJ000313_17.0419.C14.o1.np	Method	AAT/NAP
Start	3330	End	4602
GI	6437534	Score	405
Exons	3330..3798, 3900..4602		
GI Descrip.	(AC012193) putative phorbol ester / diacylglycerol binding protein [Arabidopsis thaliana]		

Seq. No.	56099	Seq. ID	OJ000313_17.0419.C14
Gene No.	117409	Strand	-
Start	4204	End	4721
Name	OJ000313_17.0419.C14.o1.gp	Method	AAT/GAP
Start	4204	End	4721
GI	55901_1.R1084	Score	928
Exons	4204..4721		
GI Descrip.	'1504012/dbj BAA13205 6.0e-17 (D86969) similar to Human zinc-finger protein, BR140(P1:JC2069) [Homo sapiens] >gi_5805248_gb_AAD51905.1_ (AF127774) unknown [Homo sapiens]'		

Seq. No.	56100	Seq. ID	OJ000313_17.0419.C15
Gene No.	117410	Strand	+
Start	421	End	863
Name	OJ000313_17.0419.C15.o1.gs	Method	GENSCAN
Start	421	End	863
GI	none	Score	.56
Exons	421..613, 760..863		

Seq. No.	56101	Seq. ID	OJ000313_17.0419.C19
Gene No.	117411	Strand	-
Start	1	End	2772
Name	OJ000313_17.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	2772
GI	4589610	Score	253
Exons	1..39, 524..767, 1254..1558, 2198..2496, 2733..2772		
GI Descrip.	(AB023200) KIAA0983 protein [Homo sapiens]		

Seq. No.	56101	Seq. ID	OJ000313_17.0419.C19
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Gene No.	117411	Strand	-
Start	1	End	2772
Name	OJ000313_17.0419.C19.o1.gs	Method	GENSCAN
Start	422	End	2612
GI	none	Score	.75
Exons	422..771, 1222..1558, 2198..2527, 2583..2612		

Seq. No.	56101	Seq. ID	OJ000313_17.0419.C19
Gene No.	117411	Strand	-
Start	1	End	2772
Name	OJ000313_17.0419.C19.o1.gp	Method	AAT/GAP
Start	707	End	1333
GI	none	Score	262
Exons	707..771, 1222..1333		

Seq. No.	56101	Seq. ID	OJ000313_17.0419.C19
Gene No.	117411	Strand	-
Start	1	End	2772
Name	OJ000313_17.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	1220	End	2377
GI	none	Score	66
Exons	1220..1318, 1257..1313, 1292..1567, 1296..1559, 1383..1583, 2198..2377, 2205..2369		

Seq. No.	56101	Seq. ID	OJ000313_17.0419.C19
Gene No.	117411	Strand	-
Start	1	End	2772
Name	OJ000313_17.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	1223	End	1523
GI	none	Score	333
Exons	1223..1522, 1224..1523		

Seq. No.	56101	Seq. ID	OJ000313_17.0419.C19
Gene No.	117411	Strand	-
Start	1	End	2772
Name	OJ000313_17.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	2298	End	2772
GI	none	Score	194
Exons	2298..2426, 2298..2426, 2300..2491, 2572..2664, 2580..2771, 2581..2772		

Seq. No.	56101	Seq. ID	OJ000313_17.0419.C19
Gene No.	117411	Strand	-
Start	1	End	2772
Name	OJ000313_17.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	2342	End	2732
GI	none	Score	59
Exons	2342..2491, 2352..2426, 2583..2732, 2587..2730		

Seq. No.	56102	Seq. ID	OJ000313_17.0419.C20
Gene No.	117412	Strand	-
Start	241	End	291
Name	OJ000313_17.0419.C20.o1.gs	Method	GENSCAN
Start	241	End	291
GI	none	Score	.57
Exons	241..291		

Seq. No.	56103	Seq. ID	OJ000313_17.0419.C22
Gene No.	117413	Strand	-
Start	1384	End	5832
Name	OJ000313_17.0419.C22.ol.gs	Method	GENSCAN
Start	1384	End	5832
GI	none	Score	.67
Exons	1384..1551, 1759..1976, 4542..4649, 4795..4867, 5443..5580, 5730..5832		

Seq. No.	56104	Seq. ID	OJ000313_17.0419.C23
Gene No.	117414	Strand	+
Start	22	End	598
Name	OJ000313_17.0419.C23.ol.gs	Method	GENSCAN
Start	22	End	598
GI	none	Score	.55
Exons	22..228, 539..598		

Seq. No.	56105	Seq. ID	OJ000313_17.0419.C24
Gene No.	117415	Strand	+
Start	603	End	6078
Name	OJ000313_17.0419.C24.ol.gs	Method	GENSCAN
Start	603	End	4587
GI	none	Score	.87
Exons	603..776, 877..1230, 1318..1415, 1717..1777, 1945..2005, 2093..2169, 2500..2549, 2956..3038, 3314..3384, 3708..3858, 4170..4303, 4374..4466, 4522..4587		

Seq. No.	56105	Seq. ID	OJ000313_17.0419.C24
Gene No.	117415	Strand	+
Start	603	End	6078
Name	OJ000313_17.0419.C24.ol.gp	Method	AAT/GAP
Start	1118	End	2140
GI	58686_1.R1084	Score	565
Exons	1118..1230, 1663..1722, 1809..1862, 1945..2005, 2093..2140		
GI Descrip.	'4176420/dbj BAA37167 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	56105	Seq. ID	OJ000313_17.0419.C24
Gene No.	117415	Strand	+
Start	603	End	6078
Name	OJ000313_17.0419.C24.ol.np	Method	AAT/NAP
Start	2134	End	6078
GI	7271117	Score	236
Exons	2134..2169, 2500..2549, 2956..3038, 3314..3384, 3708..3767, 5855..6078		
GI Descrip.	(AJ276422) 25.7 kDa protein [Cicer arietinum]		

Seq. No.	56105	Seq. ID	OJ000313_17.0419.C24
Gene No.	117415	Strand	+
Start	603	End	6078
Name	OJ000313_17.0419.C24.o2.gp	Method	AAT/GAP
Start	3721	End	5061
GI	none	Score	1133
Exons	3721..3858, 4170..4303, 4374..4466, 4805..5061		

Seq. No.	56105	Seq. ID	OJ000313_17.0419.C24
Gene No.	117416	Strand	-

Start	5274	End	6028
Name	OJ000313_17.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	1653	End	3821
GI	none	Score	71
Exons	1653..1718, 1657..1722, 1809..1862, 1817..1855, 1929..1994, 1929..1997, 1930..2004, 1930..2004, 2091..2126, 2091..2171, 2092..2172, 2488..2565, 2499..2546, 2956..3027, 2960..3043, 2969..3031, 3313..3384, 3330..3389, 3702..3821, 3713..3766		

Seq. No.	56105	Seq. ID	OJ000313_17.0419.C24
Gene No.	117416	Strand	-
Start	5274	End	6028
Name	OJ000313_17.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	1657	End	3019
GI	none	Score	79
Exons	1657..1722, 1809..1862, 1930..2004, 1930..2004, 2091..2171, 2092..2175, 2488..2565, 2960..3019		

Seq. No.	56105	Seq. ID	OJ000313_17.0419.C24
Gene No.	117416	Strand	-
Start	5274	End	6028
Name	OJ000313_17.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	1657	End	4459
GI	none	Score	97
Exons	1657..1722, 1660..1722, 1664..1723, 1807..1863, 1808..1864, 1809..1862, 1929..2003, 1930..2004, 1939..2004, 2092..2172, 2094..2171, 2482..2565, 2948..3043, 2953..3036, 2954..3040, 3312..3383, 3313..3384, 3314..3385, 3702..3785, 3707..3784, 3774..3833, 3786..3833, 4166..4210, 4167..4211, 4169..4216, 4225..4302, 4227..4307, 4229..4312, 4361..4459		

Seq. No.	56105	Seq. ID	OJ000313_17.0419.C24
Gene No.	117416	Strand	-
Start	5274	End	6028
Name	OJ000313_17.0419.C24.o2.gs	Method	GENSCAN
Start	5274	End	6028
GI	none	Score	.56
Exons	5274..5332, 5806..6028		

Seq. No.	56106	Seq. ID	OJ000313_17.0419.C25
Gene No.	117417	Strand	-
Start	19	End	997
Name	OJ000313_17.0419.C25.o1.gs	Method	GENSCAN
Start	19	End	997
GI	none	Score	.77
Exons	19..247, 556..736, 930..997		

Seq. No.	56107	Seq. ID	OJ000313_17.0419.C26
Gene No.	117418	Strand	+
Start	1	End	1458
Name	OJ000313_17.0419.C26.o1.gp	Method	AAT/GAP
Start	1	End	1458
GI	61_1.R1084	Score	922
Exons	1..77, 886..1247, 1348..1458		
GI Descrip.	'3318615/dbj BAA31584.1 0.0e+00 (AB016065) mitochondrial phosphate transporter [Oryza sativa]'		

Seq. No.	56107	Seq. ID	OJ000313_17.0419.C26
Gene No.	117418	Strand	+
Start	1	End	1458
Name	OJ000313_17.0419.C26.ol.np	Method	AAT/NAP
Start	1	End	1458
GI	3318615	Score	771
Exons	1..77, 886..1247, 1348..1458		
GI Descrip.	(AB016065) mitochondrial phosphate transporter [Oryza sativa]		

Seq. No.	56107	Seq. ID	OJ000313_17.0419.C26
Gene No.	117418	Strand	+
Start	1	End	1458
Name	OJ000313_17.0419.C26.ol.tm	Method	TBLASTX:Maize
Start	2	End	1418
GI	none	Score	136
Exons	2..76, 3..80, 3..80, 883..1248, 885..1247, 1053..1262, 1347..1418, 1349..1390		

Seq. No.	56107	Seq. ID	OJ000313_17.0419.C26
Gene No.	117418	Strand	+
Start	1	End	1458
Name	OJ000313_17.0419.C26.ol.ts	Method	TBLASTX:Soybean
Start	2	End	1390
GI	none	Score	127
Exons	2..76, 3..80, 875..1177, 883..1248, 885..1247, 1349..1390		

Seq. No.	56107	Seq. ID	OJ000313_17.0419.C26
Gene No.	117418	Strand	+
Start	1	End	1458
Name	OJ000313_17.0419.C26.ol.tc	Method	TBLASTX:Cress
Start	5	End	1390
GI	none	Score	123
Exons	5..76, 6..80, 883..1239, 883..1239, 885..1247, 1349..1390		

Seq. No.	56107	Seq. ID	OJ000313_17.0419.C26
Gene No.	117418	Strand	+
Start	1	End	1458
Name	OJ000313_17.0419.C26.ol.gs	Method	GENSCAN
Start	36	End	1391
GI	none	Score	.91
Exons	36..77, 886..1247, 1307..1391		

Seq. No.	56107	Seq. ID	OJ000313_17.0419.C26
Gene No.	117418	Strand	+
Start	1	End	1458
Name	OJ000313_17.0419.C26.ol.tw	Method	TBLASTX:Wheat
Start	883	End	1378
GI	none	Score	514
Exons	883..1248, 884..1249, 885..1247, 1346..1378, 1349..1378		

Seq. No.	56108	Seq. ID	OJ000313_17.0419.C27
Gene No.	117419	Strand	+
Start	1	End	1188
Name	OJ000313_17.0419.C27.ol.gp	Method	AAT/GAP
Start	1	End	1188
GI	61_1.R1084	Score	1168
Exons	1..121, 597..721, 818..1188		

GI Descrip. '3318615/dbj|BAA31584.1| 0.0e+00 (AB016065) mitochondrial phosphate transporter [Oryza sativa]'

Seq. No.	56108	Seq. ID	OJ000313_17.0419.C27
Gene No.	117419	Strand	+
Start	1	End	1188
Name	OJ000313_17.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	881
GI	3318615	Score	454
Exons	1..121, 597..721, 818..881		
GI Descrip.	(AB016065) mitochondrial phosphate transporter [Oryza sativa]		

Seq. No.	56108	Seq. ID	OJ000313_17.0419.C27
Gene No.	117419	Strand	+
Start	1	End	1188
Name	OJ000313_17.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	1	End	1124
GI	none	Score	206
Exons	1..129, 2..121, 588..719, 596..721, 598..729, 599..721, 818..859, 819..854, 843..887, 962..1075, 977..1066, 1047..1124, 1050..1124		

Seq. No.	56108	Seq. ID	OJ000313_17.0419.C27
Gene No.	117419	Strand	+
Start	1	End	1188
Name	OJ000313_17.0419.C27.o1.tc	Method	TBLASTX:Cress
Start	2	End	875
GI	none	Score	204
Exons	2..121, 4..120, 588..719, 596..718, 804..875, 818..874		

Seq. No.	56108	Seq. ID	OJ000313_17.0419.C27
Gene No.	117419	Strand	+
Start	1	End	1188
Name	OJ000313_17.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	20	End	856
GI	none	Score	156
Exons	20..121, 22..120, 588..719, 596..721, 804..845, 818..856		

Seq. No.	56108	Seq. ID	OJ000313_17.0419.C27
Gene No.	117419	Strand	+
Start	1	End	1188
Name	OJ000313_17.0419.C27.o1.tw	Method	TBLASTX:Wheat
Start	588	End	1025
GI	none	Score	186
Exons	588..719, 596..721, 617..721, 818..865, 837..968, 897..974, 977..1024, 981..1025		

Seq. No.	56108	Seq. ID	OJ000313_17.0419.C27
Gene No.	117419	Strand	+
Start	1	End	1188
Name	OJ000313_17.0419.C27.o1.gs	Method	GENSCAN
Start	597	End	884
GI	none	Score	.89
Exons	597..721, 818..884		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117420	Strand	+

Start	744	End	1042
Name	OJ000313_17.0419.C28.o1.gs	Method	GENSCAN
Start	744	End	1042
GI	none	Score	.88
Exons	744..1042		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117421	Strand	+
Start	2622	End	5477
Name	OJ000313_17.0419.C28.o1.gp	Method	AAT/GAP
Start	2556	End	3048
GI	uC-osroM202029b04b1	Score	962
Exons	2556..3048		
GI Descrip.	'3047096 1.0e-14 (AF058826) similar to eukaryotic protein kinase domains (Pfam: pkinase.hmm, score: 189.74) [Arabidopsis thaliana]'		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117421	Strand	+
Start	2622	End	5477
Name	OJ000313_17.0419.C28.o2.gs	Method	GENSCAN
Start	2622	End	5321
GI	none	Score	.98
Exons	2622..5321		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117421	Strand	+
Start	2622	End	5477
Name	OJ000313_17.0419.C28.o1.np	Method	AAT/NAP
Start	2664	End	5318
GI	7434417	Score	1547
Exons	2664..3568, 3641..4054, 4146..5318		
GI Descrip.	hypothetical protein T26D22.12 - Arabidopsis thaliana gi 3047096 gb AAC13608.1 (AF058826) similar to eukaryotic protein kinase domains (Pfam: pkinase.hmm, score: 189.74) [Arabidopsis thaliana]		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117421	Strand	+
Start	2622	End	5477
Name	OJ000313_17.0419.C28.o2.gp	Method	AAT/GAP
Start	4709	End	5477
GI	15443_1.R1084	Score	1408
Exons	4709..5477		
GI Descrip.	'3047096 6.0e-21 (AF058826) similar to eukaryotic protein kinase domains (Pfam: pkinase.hmm, score: 189.74) [Arabidopsis thaliana]'		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117422	Strand	+
Start	6360	End	7520
Name	OJ000313_17.0419.C28.o3.gp	Method	AAT/GAP
Start	6302	End	6748
GI	uC-osflcyp034a05b1	Score	851
Exons	6302..6748		
GI Descrip.	'4126403/dbj BAA36554 2.0e-22 (AB011796) flavonol synthase [Citrus unshiu]'		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117422	Strand	+
Start	6360	End	7520
Name	OJ000313_17.0419.C28.o2.np	Method	AAT/NAP
Start	6354	End	7517
GI	4126403	Score	1009
Exons	6354..6814, 6888..7215, 7308..7517		
GI Descrip.	(AB011796) flavonol synthase [Citrus unshiu]		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117422	Strand	+
Start	6360	End	7520
Name	OJ000313_17.0419.C28.o3.gs	Method	GENSCAN
Start	6360	End	7520
GI	none	Score	.99
Exons	6360..6814, 6888..7215, 7308..7520		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117423	Strand	+
Start	14567	End	16829
Name	OJ000313_17.0419.C28.o5.gs	Method	GENSCAN
Start	14567	End	16829
GI	none	Score	.95
Exons	14567..14906, 15523..15716, 15811..15844, 16183..16829		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117424	Strand	+
Start	17246	End	17684
Name	OJ000313_17.0419.C28.o6.gs	Method	GENSCAN
Start	17246	End	17684
GI	none	Score	.69
Exons	17246..17299, 17433..17684		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117425	Strand	-
Start	9518	End	10937
Name	OJ000313_17.0419.C28.o3.np	Method	AAT/NAP
Start	9518	End	10937
GI	7340868	Score	194
Exons	9518..9539, 10749..10937		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o2.tc	Method	TBLASTX:Cress
Start	2853	End	5117
GI	none	Score	56
Exons	2853..2903, 2994..3089, 3738..3851, 4176..4295, 4202..4402, 4317..4469, 4488..4808, 4514..4816, 4911..5117		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o2.tw	Method	TBLASTX:Wheat
Start	4128	End	4331

GI	none	Score	217
Exons	4128..4331, 4155..4331		
Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o5.ts	Method	TBLASTX:Soybean
Start	4140	End	4412
GI	none	Score	130
Exons	4140..4325, 4160..4300, 4314..4412		
Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o4.tm	Method	TBLASTX:Maize
Start	4178	End	4424
GI	none	Score	392
Exons	4178..4423, 4179..4424		
Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	4338	End	4751
GI	none	Score	306
Exons	4338..4658, 4571..4654, 4689..4751		
Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o3.ts	Method	TBLASTX:Soybean
Start	4412	End	4810
GI	none	Score	87
Exons	4412..4456, 4413..4466, 4466..4810, 4488..4808		
Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	4425	End	4991
GI	none	Score	83
Exons	4425..4472, 4425..4475, 4478..4750, 4479..4751, 4689..4751, 4751..4843, 4752..4844, 4847..4921, 4893..4979, 4917..4991		
Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o6.tm	Method	TBLASTX:Maize
Start	6374	End	6623
GI	none	Score	236
Exons	6374..6619, 6411..6623		
Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o1.tc	Method	TBLASTX:Cress
Start	6411	End	7517

GI	none	Score	70
Exons	6411..6467, 6546..6815, 6557..6802, 6886..7212, 7026..7223, 7296..7382, 7301..7381, 7431..7517, 7442..7513		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	6411	End	7511
GI	none	Score	47
Exons	6411..6455, 6546..6815, 6569..6814, 6886..7218, 7011..7223, 7268..7381, 7296..7382, 7434..7511		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o2.tm	Method	TBLASTX:Maize
Start	6624	End	7511
GI	none	Score	237
Exons	6624..6815, 6886..7215, 7011..7205, 7305..7382, 7313..7381, 7434..7511		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o2.ts	Method	TBLASTX:Soybean
Start	14743	End	17656
GI	none	Score	114
Exons	14743..14871, 14747..14890, 15522..15632, 15603..15743, 16160..16396, 16182..16403, 16442..16645, 16443..16805, 16572..16805, 17427..17573, 17438..17656		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o3.tm	Method	TBLASTX:Maize
Start	15642	End	17666
GI	none	Score	73
Exons	15642..15743, 15808..15843, 16169..16390, 16182..16391, 16242..16391, 16440..16646, 16442..16642, 16443..16694, 16698..16754, 16701..16745, 16761..16808, 17442..17564, 17628..17666		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o3.tc	Method	TBLASTX:Cress
Start	16173	End	17675
GI	none	Score	193
Exons	16173..16388, 16265..16387, 16446..16748, 16520..16768, 16761..16814, 17430..17576, 17432..17674, 17631..17675		

Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o4.gp	Method	AAT/GAP
Start	17971	End	18693

GI	none	Score	1376
Exons	17971..18693		
Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o7.gs	Method	GENSCAN
Start	18044	End	19473
GI	none	Score	.4
Exons	18044..18132, 18674..18785, 19069..19473		
Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o5.tm	Method	TBLASTX:Maize
Start	18519	End	18696
GI	none	Score	159
Exons	18519..18695, 18525..18695, 18526..18696, 18526..18696		
Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o4.ts	Method	TBLASTX:Soybean
Start	18537	End	19294
GI	none	Score	108
Exons	18537..18659, 18538..18672, 18681..18749, 18681..18806, 18873..18899, 18927..18998, 18934..18993, 19102..19227, 19172..19294		
Seq. No.	56109	Seq. ID	OJ000313_17.0419.C28
Gene No.	117426	Strand	-
Start	18044	End	19603
Name	OJ000313_17.0419.C28.o5.gp	Method	AAT/GAP
Start	19224	End	19603
GI	none	Score	710
Exons	19224..19603		
Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117427	Strand	+
Start	2575	End	6848
Name	OJ000313_11.0417.C1.o2.gs	Method	GENSCAN
Start	2575	End	6848
GI	none	Score	.44
Exons	2575..2649, 2995..3022, 3267..3291, 3908..4308, 4378..4507, 4540..4647, 4947..5042, 5306..5498, 5866..6035, 6089..6189, 6544..6848		
Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117428	Strand	+
Start	7860	End	9129
Name	OJ000313_11.0417.C1.o3.gs	Method	GENSCAN
Start	7860	End	9129
GI	none	Score	.89
Exons	7860..7873, 8653..8840, 8972..9129		
Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117429	Strand	+

Start	15876	End	15977
Name	OJ000313_11.0417.C1.o2.gp		Method AAT/GAP
Start	15876	End	15977
GI	LIB3477-003-P1-K1-E9	Score	130
Exons	15876..15977		
GI Descrip.	'2498586/sp Q40638 MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117430	Strand	+
Start	16278	End	16491
Name	OJ000313_11.0417.C1.o3.gp	Method	AAT/GAP
Start	16278	End	16491
GI	none	Score	376
Exons	16278..16491		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117431	Strand	+
Start	24513	End	24823
Name	OJ000313_11.0417.C1.o5.gp	Method	AAT/GAP
Start	24513	End	24823
GI	none	Score	552
Exons	24513..24823		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117432	Strand	+
Start	25905	End	30457
Name	OJ000313_11.0417.C1.o7.gs	Method	GENSCAN
Start	25905	End	30264
GI	none	Score	.84
Exons	25905..26062, 26349..26442, 26627..26830, 26972..27127, 27367..27444, 27565..27696, 27925..28005, 28170..28241, 28325..28414, 28593..28737, 28813..28901, 29040..29135, 29278..29345, 29429..29528, 29661..29720, 30112..30264		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117432	Strand	+
Start	25905	End	30457
Name	OJ000313_11.0417.C1.o6.gp	Method	AAT/GAP
Start	26187	End	28241
GI	7253_1.R1084	Score	1614
Exons	26187..26442, 26543..26639, 26733..26830, 26972..27127, 27367..27444, 27565..27696, 27925..28005, 28170..28241		
GI Descrip.	'4581156/gb AAD24640.1 AC006919_18 0.0e+00 (AC006919) putative pyruvate kinase [Arabidopsis thaliana]'		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117432	Strand	+
Start	25905	End	30457
Name	OJ000313_11.0417.C1.o8.gp	Method	AAT/GAP
Start	26237	End	28428
GI	7253_1.R1084	Score	1680
Exons	26237..26442, 26543..26639, 26733..26830, 26972..27127, 27367..27444, 27565..27696, 27925..28005, 28170..28241, 28325..28428		
GI Descrip.	'4581156/gb AAD24640.1 AC006919_18 0.0e+00 (AC006919) putative		

pyruvate kinase [Arabidopsis thaliana]'

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117432	Strand	+
Start	25905	End	30457
Name	OJ000313_11.0417.C1.o7.gp	Method	AAT/GAP
Start	26254	End	26780
GI	LIB3431-043-P1-K1-A7	Score	403
Exons	26254..26442, 26543..26639, 26733..26780		
GI Descrip.	'125606/sp P22200 KPVC_SOLTU 2.0e-13 PYRUVATE KINASE, CYTOSOLIC ISOZYME >gi_100463_pir_S12248 pyruvate kinase (EC 2.7.1.40) - potato >gi_22576_emb_CAA37727_ (X53688) pyruvate kinase [Solanum tuberosum]'		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117432	Strand	+
Start	25905	End	30457
Name	OJ000313_11.0417.C1.o9.gp	Method	AAT/GAP
Start	26330	End	28424
GI	7253_1.R1084	Score	1485
Exons	26330..26442, 26543..26639, 26733..26830, 26972..27127, 27367..27444, 27565..27696, 27925..28005, 28170..28241, 28325..28424		
GI Descrip.	'4581156/gb AAD24640.1 AC006919_18 0.0e+00 (AC006919) putative pyruvate kinase [Arabidopsis thaliana]'		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117432	Strand	+
Start	25905	End	30457
Name	OJ000313_11.0417.C1.o10.gp	Method	AAT/GAP
Start	26543	End	28662
GI	7253_1.R1084	Score	1396
Exons	26543..26639, 26733..26830, 26972..27127, 27367..27444, 27565..27696, 27925..28005, 28170..28241, 28325..28414, 28593..28662		
GI Descrip.	'4581156/gb AAD24640.1 AC006919_18 0.0e+00 (AC006919) putative pyruvate kinase [Arabidopsis thaliana]'		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117432	Strand	+
Start	25905	End	30457
Name	OJ000313_11.0417.C1.o11.gp	Method	AAT/GAP
Start	29505	End	30457
GI	7253_4.R1084	Score	775
Exons	29505..29528, 29661..29720, 30112..30457		
GI Descrip.	'4581156/gb AAD24640.1 AC006919_18 1.0e-33 (AC006919) putative pyruvate kinase [Arabidopsis thaliana]'		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117433	Strand	+
Start	35630	End	35975
Name	OJ000313_11.0417.C1.o12.gp	Method	AAT/GAP
Start	35630	End	35975
GI	none	Score	660
Exons	35630..35975		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
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Gene No.	117434	Strand	-
Start	10689	End	11187
Name	OJ000313_11.0417.C1.o4.gs	Method	GENSCAN
Start	10689	End	11187
GI	none	Score	.93
Exons	10689..10920, 11000..11187		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117435	Strand	-
Start	11674	End	15388
Name	OJ000313_11.0417.C1.o5.gs	Method	GENSCAN
Start	11674	End	15388
GI	none	Score	.5
Exons	11674..11844, 11878..11922, 12692..12929, 14151..14313, 15334..15388		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117436	Strand	-
Start	15414	End	15875
Name	OJ000313_11.0417.C1.o1.gp	Method	AAT/GAP
Start	15414	End	15875
GI	LIB3432-059-P1-K1-D8	Score	723
Exons	15414..15875		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117437	Strand	-
Start	22940	End	23170
Name	OJ000313_11.0417.C1.o4.gp	Method	AAT/GAP
Start	22940	End	23170
GI	3762990	Score	437
Exons	22940..23170		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1 ..
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o4.tc	Method	TBLASTX:Cress
Start	22250	End	22504
GI	none	Score	256
Exons	22250..22504, 22252..22365		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o8.ts	Method	TBLASTX:Soybean
Start	22250	End	22507
GI	none	Score	116
Exons	22250..22384, 22379..22507		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o2.ts	Method	TBLASTX:Soybean
Start	22711	End	23888
GI	none	Score	125
Exons	22711..22857, 22715..22858, 23432..23728, 23479..23577,		

23653..23727, 23815..23862, 23820..23888

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o1.tm	Method	TBLASTX:Maize
Start	23429	End	24459
GI	none	Score	129
Exons	23429..23584, 23621..23728, 23815..23916, 23937..24167, 23938..24168, 24247..24435, 24247..24459		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o1.tc	Method	TBLASTX:Cress
Start	23444	End	24435
GI	none	Score	109
Exons	23444..23563, 23579..23728, 23815..23910, 23920..24156, 24063..24161, 24241..24354, 24325..24435		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o1.ts	Method	TBLASTX:Soybean
Start	23892	End	24519
GI	none	Score	352
Exons	23892..24155, 23905..24159, 24238..24465, 24238..24519		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o4.tw	Method	TBLASTX:Wheat
Start	24250	End	24471
GI	none	Score	190
Exons	24250..24471, 24256..24345		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o2.tc	Method	TBLASTX:Cress
Start	26335	End	30288
GI	none	Score	103
Exons	26335..26439, 26370..26438, 26528..26638, 26542..26637, 26725..26835, 26726..26833, 26965..27123, 26972..27133, 27348..27446, 27364..27450, 27529..27699, 27562..27696, 27576..27701, 27922..28005, 27924..28001, 28139..28249, 28182..28250, 28322..28417, 28324..28416, 28586..28699, 28590..28724, 28592..28726, 28605..28739, 28805..28927, 28812..28901, 28814..28912, 29028..29138, 29039..29137, 29277..29345, 29278..29346, 29301..29351, 29418..29525, 29426..29509, 29426..29527, 29427..29534, 29642..29710, 29658..29774, 30111..30287, 30112..30264, 30115..30288		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o3.tm	Method	TBLASTX:Maize

Start	26370	End	40075
GI	none	Score	117
Exons	26370..26441, 26371..26442, 26374..26454, 26528..26638, 26542..26649, 26543..26635, 26548..26637, 26719..26829, 26726..26833, 26731..26835, 26958..27128, 26962..27117, 26965..27138, 26972..27133, 27348..27446, 27364..27447, 27529..27699, 27563..27694, 27564..27701, 27924..28001, 27925..28017, 27926..28009, 28167..28241, 28169..28246, 28169..28240, 28305..28415, 28319..28447, 28323..28415, 28324..28416, 28566..28736, 28592..28735, 28605..28739, 28805..28936, 28812..28901, 28813..28902, 28814..28903, 29019..29126, 29028..29138, 29038..29130, 29039..29137, 29268..29345, 29277..29345, 29278..29346, 29426..29527, 29427..29534, 29642..29719, 29651..29722, 29658..29774, 30111..30281, 30112..30267, 30114..30305, 30326..30364, 30332..30364, 30333..30365, 30367..30408, 30371..30409, 30372..30425, 30447..30500, 30447..30503, 39853..39918, 39929..40075		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o6.ts	Method	TBLASTX:Soybean
Start	26370	End	30287
GI	none	Score	65
Exons	26370..26441, 26371..26442, 26373..26441, 26528..26638, 26542..26637, 26725..26835, 26726..26833, 26965..27120, 26972..27133, 27364..27447, 27366..27446, 27529..27699, 27579..27701, 27588..27704, 29471..29527, 29472..29534, 29645..29719, 29658..29774, 30111..30272, 30112..30264, 30132..30287		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o2.tw	Method	TBLASTX:Wheat
Start	27612	End	28633
GI	none	Score	70
Exons	27612..27689, 27612..27704, 27613..27699, 27924..28025, 27925..28017, 28166..28240, 28167..28241, 28167..28241, 28171..28242, 28299..28415, 28319..28447, 28324..28416, 28586..28633, 28592..28633		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o5.ts	Method	TBLASTX:Soybean
Start	27948	End	29471
GI	none	Score	74
Exons	27948..28028, 27949..28017, 28166..28279, 28170..28250, 28319..28417, 28323..28415, 28324..28416, 28586..28699, 28590..28736, 28591..28617, 28592..28729, 28605..28739, 28811..28900, 28812..28907, 28814..28936, 28816..28902, 29028..29138, 29039..29137, 29277..29345, 29278..29346, 29301..29351, 29426..29470, 29427..29471		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
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Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o1.tw	Method	TBLASTX:Wheat
Start	29096	End	30267
GI	none	Score	70
Exons	29096..29137, 29100..29150, 29102..29134, 29268..29345, 29277..29345, 29278..29346, 29426..29527, 29427..29534, 29427..29537, 29642..29719, 29642..29710, 29655..29717, 29658..29774, 30111..30263, 30112..30264, 30112..30267		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o8.gs	Method	GENSCAN
Start	30538	End	42382
GI	none	Score	.49
Exons	30538..30596, 31040..31070, 31747..31782, 32641..32787, 33294..33502, 34478..34885, 34929..35037, 35112..35242, 35564..35947, 36916..37120, 37469..37621, 37700..37822, 37927..38111, 38491..38580, 38697..38876, 39092..39141, 39795..39981, 40699..40718, 41277..41321, 42224..42382		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o5.tm	Method	TBLASTX:Maize
Start	31783	End	32160
GI	none	Score	77
Exons	31783..31839, 31783..31848, 31788..31853, 31950..32150, 31951..32160, 31956..32159		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o3.tw	Method	TBLASTX:Wheat
Start	33128	End	33888
GI	none	Score	65
Exons	33128..33196, 33130..33198, 33291..33404, 33291..33482, 33462..33503, 33462..33503, 33832..33888		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o2.tm	Method	TBLASTX:Maize
Start	36792	End	38878
GI	none	Score	119
Exons	36792..37112, 36793..37035, 36794..37120, 36795..37121, 37466..37621, 37467..37622, 37467..37622, 37468..37623, 37667..37825, 37695..37748, 37699..37752, 37699..37854, 37769..37825, 37927..38112, 37927..38100, 37968..38114, 38491..38577, 38492..38581, 38493..38582, 38688..38870, 38689..38877, 38699..38878		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o4.ts	Method	TBLASTX:Soybean

Start	36803	End	37562
GI	none	Score	111
Exons	36803..37120, 36807..36941, 37002..37121, 37202..37246, 37466..37561, 37467..37562		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o3.ts	Method	TBLASTX:Soybean
Start	37577	End	38110
GI	none	Score	67
Exons	37577..37618, 37577..37621, 37709..37825, 37710..37739, 37769..37840, 37921..38103, 37924..38100, 37976..38110		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o3.tc	Method	TBLASTX:Cress
Start	38492	End	38869
GI	none	Score	89
Exons	38492..38581, 38493..38576, 38689..38868, 38699..38869		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o5.tw	Method	TBLASTX:Wheat
Start	38720	End	38881
GI	none	Score	166
Exons	38720..38881, 38720..38863, 38725..38877		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o13.gp	Method	AAT/GAP
Start	41113	End	42518
GI	53984_1.R1084	Score	1910
Exons	41113..41931, 42224..42382, 42484..42518		
GI Descrip.	'6006895/gb AAF00670.1 AC008153 22 8.0e-56 (AC008153) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o7.ts	Method	TBLASTX:Soybean
Start	41610	End	41915
GI	none	Score	110
Exons	41610..41726, 41617..41691, 41724..41801, 41877..41915		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o5.tc	Method	TBLASTX:Cress
Start	41631	End	42518
GI	none	Score	76
Exons	41631..41738, 41653..41709, 41724..41813, 41877..41972, 42223..42384, 42224..42388, 42486..42518, 42487..42516		

Seq. No.	56110	Seq. ID	OJ000313_11.0417.C1
Gene No.	117438	Strand	-
Start	30538	End	42518
Name	OJ000313_11.0417.C1.o4.tm	Method	TBLASTX:Maize
Start	41685	End	42518
GI	none	Score	211
Exons	41685..41972, 41686..41934, 42223..42381, 42225..42377, 42226..42378, 42471..42518, 42483..42518		

Seq. No.	56111	Seq. ID	OJ000313_11.0417.C2
Gene No.	117439	Strand	+
Start	1576	End	2044
Name	OJ000313_11.0417.C2.o1.gs	Method	GENSCAN
Start	1576	End	2044
GI	none	Score	.83
Exons	1576..2044		

Seq. No.	56111	Seq. ID	OJ000313_11.0417.C2
Gene No.	117440	Strand	-
Start	1	End	5477
Name	OJ000313_11.0417.C2.o1.np	Method	AAT/NAP
Start	1	End	1653
GI	6862912	Score	328
Exons	1..109, 1418..1653		
GI Descrip.	(AC018907) unknown protein [Arabidopsis thaliana]		

Seq. No.	56111	Seq. ID	OJ000313_11.0417.C2
Gene No.	117440	Strand	-
Start	1	End	5477
Name	OJ000313_11.0417.C2.o1.ts	Method	TBLASTX:Soybean
Start	22	End	1560
GI	none	Score	92
Exons	22..111, 1415..1528, 1426..1560		

Seq. No.	56111	Seq. ID	OJ000313_11.0417.C2
Gene No.	117440	Strand	-
Start	1	End	5477
Name	OJ000313_11.0417.C2.o2.np	Method	AAT/NAP
Start	1382	End	5477
GI	7484961	Score	163
Exons	1382..1648, 1968..2066, 3458..4041, 5341..5477		
GI Descrip.	extensin homolog T9E8.80 - Arabidopsis thaliana gi 4584539 emb CAB40769.1 (AL049608) extensin-like protein [Arabidopsis thaliana] gi 7268037 emb CAB78376.1 (AL161536) extensin-like protein [Arabidopsis thaliana]		

Seq. No.	56111	Seq. ID	OJ000313_11.0417.C2
Gene No.	117440	Strand	-
Start	1	End	5477
Name	OJ000313_11.0417.C2.o1.tm	Method	TBLASTX:Maize
Start	1415	End	1587
GI	none	Score	120
Exons	1415..1534, 1429..1545, 1543..1587		

Seq. No.	56111	Seq. ID	OJ000313_11.0417.C2
Gene No.	117440	Strand	-
Start	1	End	5477

Name	OJ000313_11.0417.C2.o2.gs	Method	GENSCAN
Start	3435	End	4100
GI	none	Score	.59
Exons	3435..4100		

Seq. No.	56111	Seq. ID	OJ000313_11.0417.C2
Gene No.	117440	Strand	-
Start	1	End	5477
Name	OJ000313_11.0417.C2.o1.gp	Method	AAT/GAP
Start	4300	End	4665
GI	55507_1.R1084	Score	474
Exons	4300..4367, 4406..4665		
GI Descrip.	'5042437/gb AC007789.1 AC007789 1.0e-16 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	56111	Seq. ID	OJ000313_11.0417.C2
Gene No.	117440	Strand	-
Start	1	End	5477
Name	OJ000313_11.0417.C2.o3.gs	Method	GENSCAN
Start	4788	End	5444
GI	none	Score	.44
Exons	4788..5149, 5228..5444		

Seq. No.	56112	Seq. ID	OJ000313_11.0417.C3
Gene No.	117441	Strand	+
Start	182	End	1627
Name	OJ000313_11.0417.C3.o1.gs	Method	GENSCAN
Start	182	End	1627
GI	none	Score	.63
Exons	182..274, 483..645, 675..766, 1517..1627		

Seq. No.	56113	Seq. ID	OJ000313_11.0417.C5
Gene No.	117442	Strand	+
Start	402	End	806
Name	OJ000313_11.0417.C5.o1.np	Method	AAT/NAP
Start	402	End	803
GI	6069646	Score	461
Exons	402..803		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	56113	Seq. ID	OJ000313_11.0417.C5
Gene No.	117442	Strand	+
Start	402	End	806
Name	OJ000313_11.0417.C5.o1.gs	Method	GENSCAN
Start	423	End	806
GI	none	Score	.53
Exons	423..517, 605..806		

Seq. No.	56113	Seq. ID	OJ000313_11.0417.C5
Gene No.	117443	Strand	+
Start	2016	End	9194
Name	OJ000313_11.0417.C5.o1.gp	Method	AAT/GAP
Start	1864	End	5415

GI 1648_2.R1084 Score 1789
 Exons 1864..2218, 4115..4355, 4481..4601, 4740..4855, 5116..5415
 GI Descrip. '451193 1.0e-52 (L28008) wali7 [Triticum aestivum]
 >gi_1090845_prf_2019486B wali7 gene [Triticum aestivum]'

Seq. No. 56113 Seq. ID OJ000313_11.0417.C5
 Gene No. 117443 Strand +
 Start 2016 End 9194
 Name OJ000313_11.0417.C5.o2.gs Method GENSCAN
 Start 2016 End 9194
 GI none Score .68
 Exons 2016..2218, 4115..4355, 4481..4601, 4740..4855, 6132..6463,
 6978..7106, 8450..8545, 9188..9194

Seq. No. 56113 Seq. ID OJ000313_11.0417.C5
 Gene No. 117443 Strand +
 Start 2016 End 9194
 Name OJ000313_11.0417.C5.o2.np Method AAT/NAP
 Start 2019 End 5251
 GI 7489671 Score 931
 Exons 2019..2218, 4115..4355, 4481..4601, 4740..4855, 5116..5251
 GI Descrip. hypothetical protein wali7 - wheat (fragment)
 gi|451193|gb|AAC37416.1| (L28008) wali7 [Triticum aestivum]
 gi|1090845|prf||2019486B wali7 gene [Triticum aestivum]

Seq. No. 56113 Seq. ID OJ000313_11.0417.C5
 Gene No. 117444 Strand +
 Start 9781 End 10638
 Name OJ000313_11.0417.C5.o4.np Method AAT/NAP
 Start 9781 End 10638
 GI 6721507 Score 96
 Exons 9781..10044, 10290..10353, 10560..10638
 GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No. 56113 Seq. ID OJ000313_11.0417.C5
 Gene No. 117445 Strand -
 Start 3859 End 9893
 Name OJ000313_11.0417.C5.o2.tm Method TBLASTX:Maize
 Start 449 End 5893
 GI none Score 90
 Exons 449..547, 588..773, 5588..5800, 5729..5893

Seq. No. 56113 Seq. ID OJ000313_11.0417.C5
 Gene No. 117445 Strand -
 Start 3859 End 9893
 Name OJ000313_11.0417.C5.o1.ts Method TBLASTX:Soybean
 Start 1991 End 4861
 GI none Score 199
 Exons 1991..2167, 2004..2219, 4112..4237, 4113..4355, 4119..4355,
 4298..4357, 4481..4603, 4489..4602, 4739..4765, 4765..4857,
 4766..4861

Seq. No. 56113 Seq. ID OJ000313_11.0417.C5
 Gene No. 117445 Strand -
 Start 3859 End 9893
 Name OJ000313_11.0417.C5.o1.tc Method TBLASTX:Cress
 Start 2010 End 4861

GI	none	Score	215
Exons	2010..2219, 2012..2167, 4098..4355, 4113..4355, 4298..4357, 4480..4602, 4481..4603, 4739..4765, 4766..4861, 4768..4857, 4781..4861		

Seq. No.	56113	Seq. ID	OJ000313_11.0417.C5
Gene No.	117445	Strand	-
Start	3859	End	9893
Name	OJ000313_11.0417.C5.o1.tm	Method	TBLASTX:Maize
Start	2011	End	5247
GI	none	Score	82
Exons	2011..2052, 2012..2167, 2013..2219, 2194..2223, 4112..4204, 4112..4204, 4113..4232, 4200..4355, 4203..4343, 4469..4603, 4480..4602, 4738..4764, 4739..4765, 4766..4858, 4768..4857, 4771..4884, 5116..5157, 5122..5247, 5207..5239		

Seq. No.	56113	Seq. ID	OJ000313_11.0417.C5
Gene No.	117445	Strand	-
Start	3859	End	9893
Name	OJ000313_11.0417.C5.o3.np	Method	AAT/NAP
Start	3859	End	9893
GI	6598399	Score	50
Exons	3859..3917, 5632..5798, 9866..9893		
GI Descrip.	(AC003952) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	56114	Seq. ID	OJ000313_11.0417.C6
Gene No.	117446	Strand	+
Start	3358	End	3811
Name	OJ000313_11.0417.C6.o1.gs	Method	GENSCAN
Start	3358	End	3811
GI	none	Score	.43
Exons	3358..3446, 3697..3811		

Seq. No.	56114	Seq. ID	OJ000313_11.0417.C6
Gene No.	117447	Strand	+
Start	7759	End	7852
Name	OJ000313_11.0417.C6.o1.gp	Method	AAT/GAP
Start	7759	End	7852
GI	5867_1.R1084	Score	130
Exons	7759..7852		
GI Descrip.	'464986/sp P35132 UBC9 ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir_S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi_297884_emb_CAA78714_(Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis]		

Seq. No.	56115	Seq. ID	OJ000313_11.0417.C7
Gene No.	117448	Strand	+
Start	304	End	528
Name	OJ000313_11.0417.C7.o1.gs	Method	GENSCAN
Start	304	End	528
GI	none	Score	.9
Exons	304..528		

Seq. No.	56115	Seq. ID	OJ000313_11.0417.C7
Gene No.	117449	Strand	+
Start	2008	End	2215
Name	OJ000313_11.0417.C7.o1.np	Method	AAT/NAP
Start	2008	End	2215
GI	6069646	Score	128
Exons	2008..2215		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	56115	Seq. ID	OJ000313_11.0417.C7
Gene No.	117450	Strand	+
Start	4249	End	4613
Name	OJ000313_11.0417.C7.o1.gp	Method	AAT/GAP
Start	4249	End	4613
GI	46068_1.R1084	Score	616
Exons	4249..4613		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	56115	Seq. ID	OJ000313_11.0417.C7
Gene No.	117451	Strand	-
Start	1345	End	13059
Name	OJ000313_11.0417.C7.o2.gs	Method	GENSCAN
Start	1345	End	13059
GI	none	Score	.67
Exons	1345..1477, 3217..3352, 4404..4454, 4581..4687, 4701..6165, 6269..6344, 6855..6868, 7030..7142, 8920..9207, 9513..9561, 9997..10143, 12966..13059		

Seq. No.	56115	Seq. ID	OJ000313_11.0417.C7
Gene No.	117451	Strand	-
Start	1345	End	13059
Name	OJ000313_11.0417.C7.o2.np	Method	AAT/NAP
Start	4700	End	6600
GI	6862917	Score	635
Exons	4700..4845, 4871..5185, 5231..5491, 5543..6165, 6269..6344, 6571..6600		
GI Descrip.	(AC018907) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56115	Seq. ID	OJ000313_11.0417.C7
Gene No.	117451	Strand	-
Start	1345	End	13059
Name	OJ000313_11.0417.C7.o2.gp	Method	AAT/GAP
Start	5339	End	5726
GI	none	Score	610
Exons	5339..5726		

Seq. No.	56115	Seq. ID	OJ000313_11.0417.C7
Gene No.	117451	Strand	-
Start	1345	End	13059
Name	OJ000313_11.0417.C7.o3.gp	Method	AAT/GAP
Start	5736	End	7030
GI	26615_1.R1084	Score	1370

Exons 5736..6165, 6269..6344, 6571..6665, 6795..7030
GI Descrip. '4097573 2.0e-10 (U64917) GMFP7 [Glycine max]'

Seq. No. 56115 Seq. ID OJ000313_11.0417.C7
Gene No. 117452 Strand -
Start 14023 End 14310
Name OJ000313_11.0417.C7.o1.tw Method TBLASTX:Wheat
Start 5938 End 6299
GI none Score 76
Exons 5938..5991, 5953..5988, 6000..6020, 6029..6166, 6030..6170,
6267..6299, 6268..6297

Seq. No. 56115 Seq. ID OJ000313_11.0417.C7
Gene No. 117452 Strand -
Start 14023 End 14310
Name OJ000313_11.0417.C7.o1.tm Method TBLASTX:Maize
Start 5953 End 6347
GI none Score 71
Exons 5953..5991, 5953..6003, 6029..6166, 6032..6166, 6033..6170,
6267..6347, 6268..6345

Seq. No. 56115 Seq. ID OJ000313_11.0417.C7
Gene No. 117452 Strand -
Start 14023 End 14310
Name OJ000313_11.0417.C7.o1.ts Method TBLASTX:Soybean
Start 6032 End 6350
GI none Score 128
Exons 6032..6166, 6036..6170, 6267..6350, 6268..6342

Seq. No. 56115 Seq. ID OJ000313_11.0417.C7
Gene No. 117452 Strand -
Start 14023 End 14310
Name OJ000313_11.0417.C7.o1.tc Method TBLASTX:Cress
Start 6035 End 6354
GI none Score 94
Exons 6035..6166, 6036..6170, 6267..6347, 6268..6354

Seq. No. 56115 Seq. ID OJ000313_11.0417.C7
Gene No. 117452 Strand -
Start 14023 End 14310
Name OJ000313_11.0417.C7.o3.gs Method GENSCAN
Start 14023 End 14310
GI none Score .72
Exons 14023..14310

Seq. No. 56116 Seq. ID OJ000313_11.0417.C8
Gene No. 117453 Strand -
Start 1 End 7989
Name OJ000313_11.0417.C8.o1.np Method AAT/NAP
Start 1 End 7989
GI 3980411 Score 55
Exons 1..38, 1885..2037, 4368..4587, 7273..7403, 7926..7989
GI Descrip. (AC004561) putative proline-rich protein [Arabidopsis thaliana]

Seq. No. 56116 Seq. ID OJ000313_11.0417.C8
Gene No. 117453 Strand -
Start 1 End 7989

Name	OJ000313_11.0417.C8.o1.gp	Method	AAT/GAP
Start	874	End	1159
GI	2312838	Score	64
Exons	874..932, 1133..1159		
GI Descrip.	1420932/gb U61383 ORU61383.7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	56116	Seq. ID	OJ000313_11.0417.C8
Gene No.	117453	Strand	-
Start	1	End	7989
Name	OJ000313_11.0417.C8.o1.gs	Method	GENSCAN
Start	1370	End	4834
GI	none	Score	.54
Exons	1370..1587, 1661..1700, 1827..2148, 2187..2326, 3479..3594, 4416..4499, 4561..4616, 4716..4834		

Seq. No.	56116	Seq. ID	OJ000313_11.0417.C8
Gene No.	117453	Strand	-
Start	1	End	7989
Name	OJ000313_11.0417.C8.o2.np	Method	AAT/NAP
Start	5161	End	7989
GI	7489383	Score	476
Exons	5161..5379, 5780..5986, 6787..6939, 7675..7712, 7948..7989		
GI Descrip.	jacalin homolog - barley gi 1167955 gb AAA87042.1 (U43497) putative 32.7 kDa jasmonate-induced protein [Hordeum vulgare] gi 2465428 gb AAB72097.1 (AF021257) 32 kDa protein [Hordeum vulgare]		

Seq. No.	56116	Seq. ID	OJ000313_11.0417.C8
Gene No.	117453	Strand	-
Start	1	End	7989
Name	OJ000313_11.0417.C8.o2.gs	Method	GENSCAN
Start	5164	End	6885
GI	none	Score	.45
Exons	5164..5385, 6733..6885		

Seq. No.	56116	Seq. ID	OJ000313_11.0417.C8
Gene No.	117453	Strand	-
Start	1	End	7989
Name	OJ000313_11.0417.C8.o1.tm	Method	TBLASTX:Maize
Start	5336	End	6972
GI	none	Score	69
Exons	5336..5383, 5813..5917, 5817..5918, 5918..5980, 5927..5974, 6781..6972, 6788..6934, 6799..6951		

Seq. No.	56116	Seq. ID	OJ000313_11.0417.C8
Gene No.	117453	Strand	-
Start	1	End	7989
Name	OJ000313_11.0417.C8.o3.gs	Method	GENSCAN
Start	7153	End	7433
GI	none	Score	.71
Exons	7153..7433		

Seq. No.	56117	Seq. ID	OJ000313_11.0417.C9
Gene No.	117454	Strand	+
Start	734	End	3448
Name	OJ000313_11.0417.C9.o1.gs	Method	GENSCAN

Start	734	End	3448
GI	none	Score	.55
Exons	734..1087, 1899..1981, 3331..3448		

Seq. No.	56117	Seq. ID	OJ000313_11.0417.C9
Gene No.	117455	Strand	-
Start	1	End	1060
Name	OJ000313_11.0417.C9.o1.np	Method	AAT/NAP
Start	1	End	1060
GI	7489383	Score	214
Exons	1..37, 780..1060		
GI Descrip.	jacalin homolog - barley gi 1167955 gb AAA87042.1 (U43497) putative 32.7 kDa jasmonate-induced protein [Hordeum vulgare] gi 2465428 gb AAB72097.1 (AF021257) 32 kDa protein [Hordeum vulgare]		

Seq. No.	56117	Seq. ID	OJ000313_11.0417.C9
Gene No.	117456	Strand	-
Start	3334	End	3563
Name	OJ000313_11.0417.C9.o2.tm	Method	TBLASTX:Maize
Start	782	End	1033
GI	none	Score	119
Exons	782..865, 869..1033		

Seq. No.	56117	Seq. ID	OJ000313_11.0417.C9
Gene No.	117456	Strand	-
Start	3334	End	3563
Name	OJ000313_11.0417.C9.o1.tm	Method	TBLASTX:Maize
Start	3290	End	3563
GI	none	Score	125
Exons	3290..3451, 3290..3328, 3308..3451, 3313..3453, 3313..3453, 3524..3562, 3534..3563		

Seq. No.	56117	Seq. ID	OJ000313_11.0417.C9
Gene No.	117456	Strand	-
Start	3334	End	3563
Name	OJ000313_11.0417.C9.o1.gp	Method	AAT/GAP
Start	3334	End	3563
GI	67687_1.R1084	Score	206
Exons	3334..3450, 3534..3563		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	56118	Seq. ID	OJ000313_11.0417.C10
Gene No.	117457	Strand	+
Start	4365	End	5909
Name	OJ000313_11.0417.C10.o2.gs	Method	GENSCAN
Start	4365	End	5242
GI	none	Score	.93
Exons	4365..4518, 4995..5085, 5161..5242		

Seq. No.	56118	Seq. ID	OJ000313_11.0417.C10
Gene No.	117457	Strand	+
Start	4365	End	5909
Name	OJ000313_11.0417.C10.o2.np	Method	AAT/NAP
Start	4398	End	5909
GI	7437846	Score	255

Exons 4398..4518, 5025..5085, 5161..5238, 5720..5791, 5880..5909
 GI Descrip. probable long-chain-fatty-acid--CoA ligase (EC 6.2.1.3) - rape
 gi|1617274|emb|CAA96522.1| (Z72152) AMP-binding protein
 [Brassica napus]

Seq. No.	56118	Seq. ID	OJ000313_11.0417.C10
Gene No.	117457	Strand	+
Start	4365	End	5909
Name	OJ000313_11.0417.C10.o3.gp	Method	AAT/GAP
Start	5019	End	5243
GI	uC-osflm202110c11b1	Score	202
Exons	5019..5085, 5161..5243		
GI Descrip.	'1617274/emb CAA96522 3.0e-28 (Z72152) AMP-binding protein [Brassica napus]'		

Seq. No.	56118	Seq. ID	OJ000313_11.0417.C10
Gene No.	117458	Strand	-
Start	1093	End	2852
Name	OJ000313_11.0417.C10.o1.np	Method	AAT/NAP
Start	1093	End	2400
GI	3850581	Score	342
Exons	1093..1275, 1427..1509, 1924..2032, 2274..2400		
GI Descrip.	(AC005278) EST gb N96383 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	56118	Seq. ID	OJ000313_11.0417.C10
Gene No.	117458	Strand	-
Start	1093	End	2852
Name	OJ000313_11.0417.C10.o1.gs	Method	GENSCAN
Start	1117	End	2852
GI	none	Score	.85
Exons	1117..1275, 1427..1509, 1836..1880, 1924..2032, 2274..2347, 2428..2585, 2746..2852		

Seq. No.	56118	Seq. ID	OJ000313_11.0417.C10
Gene No.	117458	Strand	-
Start	1093	End	2852
Name	OJ000313_11.0417.C10.o1.gp	Method	AAT/GAP
Start	1233	End	2596
GI	702145	Score	780
Exons	1233..1275, 1426..1509, 1924..2032, 2274..2347, 2464..2596		
GI Descrip.	3850581 1.0e-26 (AC005278) EST gb_N96383 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	56118	Seq. ID	OJ000313_11.0417.C10
Gene No.	117458	Strand	-
Start	1093	End	2852
Name	OJ000313_11.0417.C10.o1.tm	Method	TBLASTX:Maize
Start	1426	End	2521
GI	none	Score	96
Exons	1426..1509, 1427..1510, 1427..1510, 1428..1511, 1902..2024, 1915..2034, 1919..2035, 1919..2038, 2239..2346, 2269..2349, 2271..2360, 2459..2521		

Seq. No.	56118	Seq. ID	OJ000313_11.0417.C10
Gene No.	117459	Strand	
Start	5022	End	5907

Name	OJ000313_11.0417.C10.o2.tm	Method	TBLASTX:Maize
Start	5022	End	5907
GI	none	Score	59
Exons	5022..5084, 5026..5076, 5027..5086, 5146..5229, 5159..5236, 5160..5228, 5161..5244, 5717..5791, 5721..5792, 5721..5861, 5722..5799, 5863..5907		

Seq. No.	56119	Seq. ID	OJ000313_11.0417.C11
Gene No.	117460	Strand	+
Start	139	End	1976
Name	OJ000313_11.0417.C11.o1.tc	Method	TBLASTX:Cress
Start	123	End	1057
GI	none	Score	63
Exons	123..242, 138..245, 139..246, 139..252, 320..379, 321..401, 795..872, 962..1057		

Seq. No.	56119	Seq. ID	OJ000313_11.0417.C11
Gene No.	117460	Strand	+
Start	139	End	1976
Name	OJ000313_11.0417.C11.o1.tm	Method	TBLASTX:Maize
Start	136	End	1062
GI	none	Score	181
Exons	136..246, 139..237, 320..397, 321..401, 325..402, 798..872, 816..872, 824..877, 962..1057, 966..1058, 970..1062		

Seq. No.	56119	Seq. ID	OJ000313_11.0417.C11
Gene No.	117460	Strand	+
Start	139	End	1976
Name	OJ000313_11.0417.C11.o1.np	Method	AAT/NAP
Start	139	End	1976
GI	6671960	Score	235
Exons	139..244, 322..398, 971..1061, 1868..1976		
GI Descrip.	(AC013454) putative long-chain-fatty-acid--CoA ligase [Arabidopsis thaliana]		

Seq. No.	56119	Seq. ID	OJ000313_11.0417.C11
Gene No.	117460	Strand	+
Start	139	End	1976
Name	OJ000313_11.0417.C11.o1.gp	Method	AAT/GAP
Start	148	End	421
GI	uC-osrocyp010a04b1	Score	264
Exons	148..244, 322..421		
GI Descrip.	'1617274/emb CAA96522 6.0e-33 (Z72152) AMP-binding protein [Brassica napus]'		

Seq. No.	56119	Seq. ID	OJ000313_11.0417.C11
Gene No.	117460	Strand	+
Start	139	End	1976
Name	OJ000313_11.0417.C11.o1.gs	Method	GENSCAN
Start	294	End	1934
GI	none	Score	.4
Exons	294..398, 825..869, 971..1057, 1802..1934		

Seq. No.	56120	Seq. ID	OJ000313_11.0417.C12
Gene No.	117461	Strand	+
Start	632	End	1464
Name	OJ000313_11.0417.C12.o1.ts	Method	TBLASTX:Soybean

Start	586	End	1464
GI	none	Score	70
Exons	586..717, 631..711, 632..730, 845..949, 856..978, 1110..1283, 1120..1257, 1128..1259, 1332..1391, 1336..1464, 1337..1456		

Seq. No.	56120	Seq. ID	OJ000313_11.0417.C12
Gene No.	117461	Strand	+
Start	632	End	1464
Name	OJ000313_11.0417.C12.ol.np	Method	AAT/NAP
Start	632	End	1464
GI	6671960	Score	485
Exons	632..720, 853..941, 1127..1256, 1348..1464		
GI Descrip.	(AC013454) putative long-chain-fatty-acid--CoA ligase [Arabidopsis thaliana]		

Seq. No.	56120	Seq. ID	OJ000313_11.0417.C12
Gene No.	117461	Strand	+
Start	632	End	1464
Name	OJ000313_11.0417.C12.ol.gs	Method	GENSCAN
Start	853	End	1428
GI	none	Score	.6
Exons	853..941, 1127..1256, 1348..1428		

Seq. No.	56120	Seq. ID	OJ000313_11.0417.C12
Gene No.	117461	Strand	+
Start	632	End	1464
Name	OJ000313_11.0417.C12.ol.tm	Method	TBLASTX:Maize
Start	863	End	1464
GI	none	Score	131
Exons	863..949, 863..928, 864..929, 1110..1259, 1120..1257, 1125..1259, 1336..1464, 1337..1462, 1348..1464		

Seq. No.	56120	Seq. ID	OJ000313_11.0417.C12
Gene No.	117461	Strand	+
Start	632	End	1464
Name	OJ000313_11.0417.C12.ol.gp	Method	AAT/GAP
Start	1129	End	1464
GI	568356	Score	466
Exons	1129..1256, 1348..1464		
GI Descrip.	1617274/emb CAA96522 2.0e-49 (Z72152) AMP-binding protein [Brassica napus]		

Seq. No.	56120	Seq. ID	OJ000313_11.0417.C12
Gene No.	117461	Strand	+
Start	632	End	1464
Name	OJ000313_11.0417.C12.ol.tc	Method	TBLASTX:Cress
Start	1189	End	1464
GI	none	Score	85
Exons	1189..1257, 1189..1257, 1337..1462, 1339..1464, 1348..1464		

Seq. No.	56121	Seq. ID	OJ000313_11.0417.C13
Gene No.	117462	Strand	+
Start	1	End	148
Name	OJ000313_11.0417.C13.ol.gp	Method	AAT/GAP
Start	1	End	148
GI	LIB3434-005-P1-K1-E4	Score	289
Exons	1..148		

GI Descrip. '1617274/emb|CAA96522| 2.0e-10 (Z72152) AMP-binding protein
[Brassica napus]'

Seq. No.	56121	Seq. ID	OJ000313_11.0417.C13
Gene No.	117463	Strand	+
Start	649	End	9184
Name	OJ000313_11.0417.C13.o1.np	Method	AAT/NAP
Start	649	End	1529
GI	7437846	Score	386
Exons	649..761, 839..925, 1150..1233, 1330..1416, 1490..1529		
GI Descrip.	probable long-chain-fatty-acid--CoA ligase (EC 6.2.1.3) - rape gi 1617274 emb CAA96522.1 (Z72152) AMP-binding protein [Brassica napus]		

Seq. No.	56121	Seq. ID	OJ000313_11.0417.C13
Gene No.	117463	Strand	+
Start	649	End	9184
Name	OJ000313_11.0417.C13.o1.gs	Method	GENSCAN
Start	822	End	8958
GI	none	Score	.79
Exons	822..925, 1147..1233, 1330..1457, 5128..5315, 5423..5530, 6408..6499, 6646..6717, 6811..6849, 7792..7837, 8188..8204, 8237..8329, 8411..8479, 8571..8649, 8735..8958		

Seq. No.	56121	Seq. ID	OJ000313_11.0417.C13
Gene No.	117463	Strand	+
Start	649	End	9184
Name	OJ000313_11.0417.C13.o2.gp	Method	AAT/GAP
Start	840	End	925
GI	LIB3434-052-P1-K1-B11	Score	157
Exons	840..925		
GI Descrip.	'1617274/emb CAA96522 8.0e-22 (Z72152) AMP-binding protein [Brassica napus]'		

Seq. No.	56121	Seq. ID	OJ000313_11.0417.C13
Gene No.	117463	Strand	+
Start	649	End	9184
Name	OJ000313_11.0417.C13.o3.gp	Method	AAT/GAP
Start	1147	End	1372
GI	LIB3434-052-P1-K1-B11	Score	198
Exons	1147..1233, 1330..1372		
GI Descrip.	'1617274/emb CAA96522 8.0e-22 (Z72152) AMP-binding protein [Brassica napus]'		

Seq. No.	56121	Seq. ID	OJ000313_11.0417.C13
Gene No.	117463	Strand	+
Start	649	End	9184
Name	OJ000313_11.0417.C13.o4.gp	Method	AAT/GAP
Start	1334	End	1858
GI	3767955	Score	843
Exons	1334..1416, 1490..1858		
GI Descrip.	1617274/emb CAA96522 1.0e-09 (Z72152) AMP-binding protein [Brassica napus]		

Seq. No.	56121	Seq. ID	OJ000313_11.0417.C13
Gene No.	117463	Strand	+
Start	649	End	9184

Name OJ000313_11.0417.C13.o2.np Method AAT/NAP
 Start 5431 End 9184
 GI 7229683 Score 1289
 Exons 5431..5530, 6408..6499, 6646..6717, 6811..6849, 7019..7076,
 7162..7207, 7792..7837, 7926..7987, 8089..8155, 8237..8329,
 8411..8479, 8571..8649, 8735..8901, 9143..9184
 GI Descrip. (AF234170) DMC1 protein [Hordeum vulgare]

Seq. No. 56121 Seq. ID OJ000313_11.0417.C13
 Gene No. 117464 Strand -
 Start 9891 End 11912
 Name OJ000313_11.0417.C13.o1.tm Method TBLASTX:Maize
 Start 647 End 1586
 GI none Score 180
 Exons 647..760, 648..761, 651..761, 652..762, 808..924, 839..925,
 842..958, 1144..1233, 1145..1231, 1149..1235, 1150..1236,
 1320..1418, 1327..1419, 1329..1421, 1463..1585, 1484..1561,
 1488..1586, 1489..1584

Seq. No. 56121 Seq. ID OJ000313_11.0417.C13
 Gene No. 117464 Strand -
 Start 9891 End 11912
 Name OJ000313_11.0417.C13.o2.ts Method TBLASTX:Soybean
 Start 647 End 1585
 GI none Score 178
 Exons 647..760, 648..761, 657..761, 808..978, 839..937, 1147..1236,
 1152..1229, 1317..1418, 1327..1419, 1463..1585, 1489..1563

Seq. No. 56121 Seq. ID OJ000313_11.0417.C13
 Gene No. 117464 Strand -
 Start 9891 End 11912
 Name OJ000313_11.0417.C13.o2.tc Method TBLASTX:Cress
 Start 1147 End 1585
 GI none Score 83
 Exons 1147..1236, 1149..1229, 1311..1415, 1327..1419, 1463..1585,
 1484..1543

Seq. No. 56121 Seq. ID OJ000313_11.0417.C13
 Gene No. 117464 Strand -
 Start 9891 End 11912
 Name OJ000313_11.0417.C13.o1.tw Method TBLASTX:Wheat
 Start 1149 End 1614
 GI none Score 110
 Exons 1149..1232, 1149..1268, 1150..1236, 1320..1418, 1327..1419,
 1329..1421, 1463..1594, 1481..1564, 1489..1614, 1489..1614

Seq. No. 56121 Seq. ID OJ000313_11.0417.C13
 Gene No. 117464 Strand -
 Start 9891 End 11912
 Name OJ000313_11.0417.C13.o1.ts Method TBLASTX:Soybean
 Start 6388 End 8906
 GI none Score 154
 Exons 6388..6498, 6398..6499, 6425..6499, 6642..6713, 6646..6717,
 6817..6849, 7010..7099, 7161..7208, 7766..7840, 7777..7839,
 7923..7985, 7925..7984, 8089..8154, 8090..8158, 8236..8328,
 8237..8332, 8404..8478, 8411..8479, 8568..8648, 8570..8641,
 8704..8904, 8733..8900, 8743..8904, 8748..8906

Seq. No.	56121	Seq. ID	OJ000313_11.0417.C13
Gene No.	117464	Strand	-
Start	9891	End	11912
Name	OJ000313_11.0417.C13.o3.tm	Method	TBLASTX:Maize
Start	7790	End	8464
GI	none	Score	71
Exons	7790..7840, 7923..7985, 8090..8158, 8237..8287, 8411..8464		

Seq. No.	56121	Seq. ID	OJ000313_11.0417.C13
Gene No.	117464	Strand	-
Start	9891	End	11912
Name	OJ000313_11.0417.C13.o1.tc	Method	TBLASTX:Cress
Start	7952	End	8762
GI	none	Score	41
Exons	7952..7984, 7953..7985, 8089..8130, 8090..8122, 8236..8328, 8237..8332, 8410..8475, 8411..8479, 8568..8648, 8570..8647, 8733..8762		

Seq. No.	56121	Seq. ID	OJ000313_11.0417.C13
Gene No.	117464	Strand	-
Start	9891	End	11912
Name	OJ000313_11.0417.C13.o3.np	Method	AAT/NAP
Start	9891	End	11912
GI	6539567	Score	101
Exons	9891..10011, 10053..10310, 11863..11912		
GI Descrip.	(AP000836) EST C72938(E2506) corresponds to a region of the predicted gene.; Similar to Arabidopsis thaliana chromosome I BAC T5A14 genomic sequence; unknown protein (AC005223) [Oryza sativa]		

Seq. No.	56121	Seq. ID	OJ000313_11.0417.C13
Gene No.	117465	Strand	-
Start	12666	End	13077
Name	OJ000313_11.0417.C13.o2.tm	Method	TBLASTX:Maize
Start	12666	End	13077
GI	none	Score	88
Exons	12666..12803, 12889..13077		

Seq. No.	56122	Seq. ID	OJ000223_18.0417.C1
Gene No.	117466	Strand	+
Start	3145	End	5982
Name	OJ000223_18.0417.C1.o2.gs	Method	GENSCAN
Start	3145	End	5982
GI	none	Score	.5
Exons	3145..3264, 3419..3575, 5215..5276, 5683..5982		

Seq. No.	56122	Seq. ID	OJ000223_18.0417.C1
Gene No.	117467	Strand	-
Start	1	End	1439
Name	OJ000223_18.0417.C1.o1.np	Method	AAT/NAP
Start	1	End	585
GI	7485529	Score	165
Exons	1..318, 346..585		
GI Descrip.	hypothetical protein F16A16.130 - Arabidopsis thaliana gi 4218122 emb CAA22976.1 (AL035353) putative protein [Arabidopsis thaliana] gi 7269731 emb CAB81464.1 (AL161573)		

putative protein [Arabidopsis thaliana]

Seq. No.	56122	Seq. ID	OJ000223_18.0417.C1
Gene No.	117467	Strand	-
Start	1	End	1439
Name	OJ000223_18.0417.C1.o1.gs	Method	GENSCAN
Start	77	End	1439
GI	none	Score	.65
Exons	77..581, 1397..1439		

Seq. No.	56122	Seq. ID	OJ000223_18.0417.C1
Gene No.	117468	Strand	-
Start	6868	End	7436
Name	OJ000223_18.0417.C1.o3.gs	Method	GENSCAN
Start	6868	End	7436
GI	none	Score	.76
Exons	6868..6944, 7274..7436		

Seq. No.	56123	Seq. ID	OJ000223_18.0417.C3
Gene No.	117469	Strand	+
Start	1219	End	1733
Name	OJ000223_18.0417.C3.o1.np	Method	AAT/NAP
Start	1219	End	1733
GI	2129478	Score	103
Exons	1219..1733		
GI Descrip.	chitinase (EC 3.2.1.14) precursor - beet gi 488731 emb CAA55883 (X79301) chitinase [Beta vulgaris] gi 829258 emb CAA56946 (X81056) Chitinase [Beta vulgaris]		

Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117470	Strand	+
Start	1	End	8328
Name	OJ000223_18.0417.C4.o1.np	Method	AAT/NAP
Start	1	End	8328
GI	7444451	Score	4257
Exons	1..446, 2872..2933, 4698..8328		
GI Descrip.	probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi 2586082 gb AAB82754.1 (U72725) retrofit [Oryza longistaminata]		

Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117471	Strand	+
Start	10563	End	13108
Name	OJ000223_18.0417.C4.o2.np	Method	AAT/NAP
Start	10563	End	12815
GI	3687240	Score	340
Exons	10563..10587, 11701..12815		
GI Descrip.	(AC005169) putative disease resistance protein [Arabidopsis thaliana]		

Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117471	Strand	+
Start	10563	End	13108
Name	OJ000223_18.0417.C4.o1.gp	Method	AAT/GAP
Start	11943	End	12483
GI	65052_1.R1084	Score	1024
Exons	11943..12483		

GI Descrip. '3687240 1.0e-12 (AC005169) extensin-like protein [Arabidopsis thaliana]'

Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117471	Strand	+
Start	10563	End	13108
Name	OJ000223_18.0417.C4.o2.gp	Method	AAT/GAP
Start	12461	End	13108
GI	65125_1.R1084	Score	1265
Exons	12461..13108		
GI Descrip.	'2781362 5.0e-12 (AC003113) F2401.18 [Arabidopsis thaliana] >gi_5454187_gb_AAD43602.1_AC005698_1 (AC005698) T3P18.1 [Arabidopsis thaliana]'		

Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o5.tm	Method	TBLASTX:Maize
Start	5	End	311
GI	none	Score	307
Exons	5..310, 12..311		

Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o5.tw	Method	TBLASTX:Wheat
Start	141	End	440
GI	none	Score	243
Exons	141..440, 173..436		

Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o7.tm	Method	TBLASTX:Maize
Start	4792	End	5058
GI	none	Score	109
Exons	4792..4929, 4819..4929, 4914..4967, 4915..5058, 4945..5058		

Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o2.tw	Method	TBLASTX:Wheat
Start	4881	End	5267
GI	none	Score	346
Exons	4881..5267, 4897..5265		

Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o4.tw	Method	TBLASTX:Wheat
Start	5554	End	6168
GI	none	Score	154
Exons	5554..5736, 5583..5735, 5761..5955, 5797..5958, 5962..6024, 6061..6168		

Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-

Start	13339	End	17387
Name	OJ000223_18.0417.C4.o6.tm	Method	TBLASTX:Maize
Start	5715	End	6176
GI	none	Score	68
Exons	5715..5822, 5749..5838, 5815..6174, 5823..6176		
Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o1.tc	Method	TBLASTX:Cress
Start	5740	End	6201
GI	none	Score	333
Exons	5740..6201		
Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o4.ts	Method	TBLASTX:Soybean
Start	5740	End	6186
GI	none	Score	250
Exons	5740..6186		
Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o2.ts	Method	TBLASTX:Soybean
Start	6798	End	7286
GI	5509260	Score	362
Exons	6798..7286, 6935..7084, 7124..7285		
GI Descrip.	-		
Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o8.tm	Method	TBLASTX:Maize
Start	6846	End	7097
GI	none	Score	197
Exons	6846..7097, 6893..7090		
Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o3.tc	Method	TBLASTX:Cress
Start	6915	End	7184
GI	none	Score	253
Exons	6915..7184, 6929..7183		
Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o3.tw	Method	TBLASTX:Wheat
Start	6981	End	7477
GI	none	Score	251
Exons	6981..7289, 6983..7063, 7124..7183, 7301..7477		
Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-

Start	13339	End	17387
Name	OJ000223_18.0417.C4.o3.tm	Method	TBLASTX:Maize
Start	7098	End	7543
GI	none	Score	199
Exons	7098..7304, 7292..7543		
Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o1.tw	Method	TBLASTX:Wheat
Start	7478	End	7917
GI	none	Score	51
Exons	7478..7513, 7522..7917, 7533..7916		
Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o2.tm	Method	TBLASTX:Maize
Start	7672	End	8277
GI	none	Score	270
Exons	7672..8103, 7686..8018, 8100..8198, 8101..8277		
Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o1.ts	Method	TBLASTX:Soybean
Start	7681	End	8277
GI	none	Score	493
Exons	7681..8277, 7683..7808, 7869..8267		
Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o5.tc	Method	TBLASTX:Cress
Start	7879	End	8304
GI	none	Score	56
Exons	7879..7944, 7954..8082, 8110..8304		
Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o6.tw	Method	TBLASTX:Wheat
Start	7954	End	8280
GI	none	Score	85
Exons	7954..8079, 7960..8055, 8098..8280, 8109..8279		
Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o1.tm	Method	TBLASTX:Maize
Start	11638	End	12503
GI	none	Score	93
Exons	11638..11724, 11678..11779, 11685..11987, 11718..11966, 11723..11986, 11967..12059, 12167..12502, 12168..12503, 12168..12503		
Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4

Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o4.tc	Method	TBLASTX:Cress
Start	11703	End	11981
GI	none	Score	104
Exons	11703..11813, 11735..11812, 11810..11956, 11823..11981		

Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o3.ts	Method	TBLASTX:Soybean
Start	11922	End	12749
GI	none	Score	61
Exons	11922..11984, 12201..12320, 12347..12550, 12348..12566, 12384..12566, 12585..12749, 12585..12698, 12602..12748		

Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o2.tc	Method	TBLASTX:Cress
Start	12273	End	12674
GI	none	Score	40
Exons	12273..12329, 12279..12305, 12347..12541, 12384..12587, 12579..12674		

Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o4.tm	Method	TBLASTX:Maize
Start	12504	End	12793
GI	none	Score	92
Exons	12504..12560, 12504..12557, 12506..12559, 12543..12572, 12557..12757, 12561..12758, 12583..12792, 12590..12793		

Seq. No.	56124	Seq. ID	OJ000223_18.0417.C4
Gene No.	117472	Strand	-
Start	13339	End	17387
Name	OJ000223_18.0417.C4.o2.gs	Method	GENSCAN
Start	13339	End	17387
GI	none	Score	.4
Exons	13339..13539, 13575..14009, 15305..15443, 17167..17387		

Seq. No.	56125	Seq. ID	OJ000223_18.0417.C5
Gene No.	117473	Strand	+
Start	96	End	1736
Name	OJ000223_18.0417.C5.o1.np	Method	AAT/NAP
Start	96	End	1736
GI	7339707	Score	54
Exons	96..188, 459..672, 1697..1736		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	56125	Seq. ID	OJ000223_18.0417.C5
Gene No.	117474	Strand	-
Start	357	End	2751
Name	OJ000223_18.0417.C5.o1.gs	Method	GENSCAN
Start	357	End	2751
GI	none	Score	.53

Exons 357..532, 959..1088, 1189..1452, 1560..1654, 1693..1773,
2064..2594, 2625..2751

Seq. No.	56126	Seq. ID	OJ000223_18.0417.C6
Gene No.	117475	Strand	-
Start	147	End	1146
Name	OJ000223_18.0417.C6.o1.gs	Method	GENSCAN
Start	147	End	1146
GI	none	Score	.57
Exons	147..707, 932..1146		

Seq. No.	56127	Seq. ID	OJ000223_18.0417.C7
Gene No.	117476	Strand	-
Start	2530	End	3810
Name	OJ000223_18.0417.C7.o2.gs	Method	GENSCAN
Start	2530	End	3810
GI	none	Score	.86
Exons	2530..3810		

Seq. No.	56127	Seq. ID	OJ000223_18.0417.C7
Gene No.	117477	Strand	-
Start	4982	End	6007
Name	OJ000223_18.0417.C7.o3.gs	Method	GENSCAN
Start	4982	End	6007
GI	none	Score	.77
Exons	4982..5048, 5183..5375, 5926..6007		

Seq. No.	56128	Seq. ID	OJ000223_18.0417.C8
Gene No.	117478	Strand	-
Start	1	End	433
Name	OJ000223_18.0417.C8.o1.gp	Method	AAT/GAP
Start	1	End	339
GI	4107133	Score	617
Exons	1..339		

Seq. No.	56128	Seq. ID	OJ000223_18.0417.C8
Gene No.	117478	Strand	-
Start	1	End	433
Name	OJ000223_18.0417.C8.o1.tm	Method	TBLASTX:Maize
Start	128	End	433
GI	none	Score	149
Exons	128..184, 260..424, 292..423, 305..433		

Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117479	Strand	+
Start	855	End	10024
Name	OJ000223_18.0417.C11.o1.gs	Method	GENSCAN
Start	855	End	6295
GI	none	Score	.58
Exons	855..889, 1585..1612, 2695..2801, 3313..3356, 3670..3809, 3842..4955, 5094..6295		

Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117479	Strand	+
Start	855	End	10024
Name	OJ000223_18.0417.C11.o1.np	Method	AAT/NAP
Start	3176	End	3637

GI	5042454	Score	184
Exons	3176..3356, 3584..3637		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117479	Strand	+
Start	855	End	10024
Name	OJ000223_18.0417.C11.o3.np	Method	AAT/NAP
Start	3869	End	10021
GI	7228457	Score	9352
Exons	3869..4235, 4297..6232, 6296..7130, 7253..8404, 8471..10021		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117479	Strand	+
Start	855	End	10024
Name	OJ000223_18.0417.C11.o2.gs	Method	GENSCAN
Start	6359	End	10024
GI	none	Score	1
Exons	6359..10024		

Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117480	Strand	+
Start	12029	End	12134
Name	OJ000223_18.0417.C11.o1.gp	Method	AAT/GAP
Start	12029	End	12134
GI	5816518	Score	170
Exons	12029..12134		
GI Descrip.	4521193/dbj AB013450.1 AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117481	Strand	+
Start	18045	End	18150
Name	OJ000223_18.0417.C11.o2.gp	Method	AAT/GAP
Start	18045	End	18150
GI	5816518	Score	166
Exons	18045..18150		
GI Descrip.	4521193/dbj AB013450.1 AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117482	Strand	+
Start	20491	End	22563
Name	OJ000223_18.0417.C11.o5.np	Method	AAT/NAP
Start	20491	End	21922
GI	5042454	Score	223
Exons	20491..20565, 20736..20791, 21468..21640, 21869..21922		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117482	Strand	+
Start	20491	End	22563
Name	OJ000223_18.0417.C11.o6.np	Method	AAT/NAP
Start	20819	End	21922

GI 5042454 Score 180
Exons 20819..21240, 21466..21640, 21869..21922
GI Descrip. (AC007789) putative polyprotein [Oryza sativa]

Seq. No. 56129 Seq. ID OJ000223_18.0417.C11
Gene No. 117482 Strand +
Start 20491 End 22563
Name OJ000223_18.0417.C11.o5.gs Method GENSCAN
Start 21258 End 22563
GI none Score .89
Exons 21258..21318, 21955..22043, 22264..22563

Seq. No. 56129 Seq. ID OJ000223_18.0417.C11
Gene No. 117483 Strand +
Start 22950 End 26263
Name OJ000223_18.0417.C11.o7.np Method AAT/NAP
Start 22950 End 26263
GI 6016874 Score 2201
Exons 22950..23028, 23112..23249, 23314..23546, 23937..24096,
24490..24669, 24787..25127, 25596..26263
GI Descrip. (AP000570) ESTs C19143(E10020), D25076(R3116) correspond to a
region of the predicted gene.; Similar to putative AC9
transposase. (P03010) [Oryza sativa]

Seq. No. 56129 Seq. ID OJ000223_18.0417.C11
Gene No. 117483 Strand +
Start 22950 End 26263
Name OJ000223_18.0417.C11.o3.gp Method AAT/GAP
Start 23639 End 24147
GI uC-osflcyp110c07b1 Score 966
Exons 23639..24147
GI Descrip. '4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp.
indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2
retrotransposon, complete sequences; and unknown genes'

Seq. No. 56129 Seq. ID OJ000223_18.0417.C11
Gene No. 117484 Strand +
Start 26779 End 28110
Name OJ000223_18.0417.C11.o4.gp Method AAT/GAP
Start 26779 End 28110
GI none Score 875
Exons 26779..26852, 27709..28110

Seq. No. 56129 Seq. ID OJ000223_18.0417.C11
Gene No. 117485 Strand -
Start 2273 End 3791
Name OJ000223_18.0417.C11.o2.np Method AAT/NAP
Start 2273 End 3791
GI 5922623 Score 239
Exons 2273..2293, 2939..3014, 3182..3339, 3711..3791
GI Descrip. (AP000492) hypothetical protein [Oryza sativa]
gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein
[Oryza sativa]

Seq. No. 56129 Seq. ID OJ000223_18.0417.C11
Gene No. 117486 Strand -
Start 10665 End 20385

Name	OJ000223_18.0417.C11.o4.np	Method	AAT/NAP
Start	10665	End	20385
GI	5803259	Score	4474
Exons	10665..11690, 18152..19028, 19127..20385		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117486	Strand	-
Start	10665	End	20385
Name	OJ000223_18.0417.C11.o4.gs	Method	GENSCAN
Start	16150	End	20385
GI	none	Score	.74
Exons	16150..16737, 17095..17334, 18152..19028, 19127..20385		

Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o6.tw	Method	TBLASTX:Wheat
Start	4523	End	4915
GI	none	Score	58
Exons	4523..4570, 4577..4675, 4594..4674, 4642..4803, 4658..4915		

Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o8.tm	Method	TBLASTX:Maize
Start	4528	End	4813
GI	none	Score	192
Exons	4528..4812, 4565..4813		

Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o3.tw	Method	TBLASTX:Wheat
Start	5653	End	6139
GI	none	Score	411
Exons	5653..5826, 5654..6139, 5666..6082		

Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o1.tw	Method	TBLASTX:Wheat
Start	6303	End	6766
GI	none	Score	202
Exons	6303..6746, 6304..6765, 6305..6766		

Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o3.ts	Method	TBLASTX:Soybean
Start	6344	End	6709
GI	none	Score	117
Exons	6344..6568, 6575..6709		

Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764

Name	OJ000223_18.0417.C11.o1.tm	Method	TBLASTX:Maize
Start	6434	End	6790
GI	none	Score	384
Exons	6434..6790, 6469..6780		
Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o2.tm	Method	TBLASTX:Maize
Start	6817	End	7201
GI	none	Score	363
Exons	6817..7182, 6818..7201		
Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o2.tw	Method	TBLASTX:Wheat
Start	6874	End	7299
GI	none	Score	493
Exons	6874..7299, 6875..7294		
Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o1.ts	Method	TBLASTX:Soybean
Start	6953	End	7324
GI	none	Score	279
Exons	6953..7324, 6970..7113		
Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o5.tw	Method	TBLASTX:Wheat
Start	7925	End	8383
GI	none	Score	236
Exons	7925..8173, 7948..8187, 7949..8173, 8234..8383, 8243..8380, 8245..8382		
Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o2.ts	Method	TBLASTX:Soybean
Start	8072	End	8638
GI	5666795	Score	68
Exons	8072..8170, 8246..8383, 8438..8638		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		
Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o8.tw	Method	TBLASTX:Wheat
Start	8386	End	8698
GI	none	Score	192
Exons	8386..8562, 8438..8698		
Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-

Start	28400	End	28764
Name	OJ000223_18.0417.C11.o3.tm	Method	TBLASTX:Maize
Start	8891	End	9223
GI	none	Score	362
Exons	8891..9214, 8920..9201, 9011..9223		
Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o4.tw	Method	TBLASTX:Wheat
Start	9028	End	9409
GI	none	Score	375
Exons	9028..9378, 9029..9409		
Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o7.tw	Method	TBLASTX:Wheat
Start	9410	End	10012
GI	none	Score	265
Exons	9410..9694, 9415..9693, 9550..9720, 9886..9999, 9887..10012		
Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o4.tm	Method	TBLASTX:Maize
Start	23298	End	23744
GI	none	Score	69
Exons	23298..23384, 23369..23578, 23370..23618, 23655..23711, 23706..23744		
Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o6.tm	Method	TBLASTX:Maize
Start	23838	End	24152
GI	none	Score	66
Exons	23838..23912, 23925..24152, 23933..24151		
Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o7.tm	Method	TBLASTX:Maize
Start	24357	End	24709
GI	none	Score	241
Exons	24357..24638, 24368..24709		
Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-
Start	28400	End	28764
Name	OJ000223_18.0417.C11.o5.tm	Method	TBLASTX:Maize
Start	24821	End	25064
GI	none	Score	282
Exons	24821..24979, 24831..25064		
Seq. No.	56129	Seq. ID	OJ000223_18.0417.C11
Gene No.	117487	Strand	-

Start 28400
 Name OJ000223_18.0417.C11.o5.gp
 Start 28400
 GI none
 Exons 28400..28764

End 28764
 Method AAT/GAP
 End 28764
 Score 730

Seq. No. 56130
 Gene No. 117488
 Start 307
 Name OJ000223_18.0417.C12.o1.gs
 Start 307
 GI none
 Exons 307..900, 967..1687, 1790..1909, 2355..2519, 3020..3194, 3196..4223

Seq. ID OJ000223_18.0417.C12
 Strand +
 End 4298
 Method GENSCAN
 End 4223
 Score .63

Seq. No. 56130
 Gene No. 117488
 Start 307
 Name OJ000223_18.0417.C12.o1.np
 Start 1444
 GI 7444456
 Exons 1444..1581, 1702..2083, 2129..3138, 3383..4298
 GI Descrip. hypothetical protein T12H20.12 - Arabidopsis thaliana gi|3600044|gb|AAC35532.1| (AF080119) contains similarity to proteases [Arabidopsis thaliana]

Seq. ID OJ000223_18.0417.C12
 Strand +
 End 4298
 Method AAT/NAP
 End 4298
 Score 1250

Seq. No. 56130
 Gene No. 117489
 Start 1
 Name OJ000223_18.0417.C12.o1.gp
 Start 1
 GI none
 Exons 1..186

Seq. ID OJ000223_18.0417.C12
 Strand -
 End 186
 Method AAT/GAP
 End 186
 Score 346

Seq. No. 56130
 Gene No. 117490
 Start 1698
 Name OJ000223_18.0417.C12.o1.tw
 Start 1698
 GI none
 Exons 1698..1835, 1717..1845, 1816..2058, 1852..2070, 1859..2059

Seq. ID OJ000223_18.0417.C12
 Strand
 End 2070
 Method TBLASTX:Wheat
 End 2070
 Score 114

Seq. No. 56130
 Gene No. 117490
 Start 1698
 Name OJ000223_18.0417.C12.o4.tm
 Start 1828
 GI none
 Exons 1828..2070, 1857..2000

Seq. ID OJ000223_18.0417.C12
 Strand
 End 2070
 Method TBLASTX:Maize
 End 2070
 Score 203

Seq. No. 56130
 Gene No. 117491
 Start 2134
 Name OJ000223_18.0417.C12.o3.tc
 Start 2134
 GI none
 Exons 2134..2154, 2231..2413, 2315..2413

Seq. ID OJ000223_18.0417.C12
 Strand
 End 3064
 Method TBLASTX:Cress
 End 2413
 Score 39

Seq. No.	56130	Seq. ID	OJ000223_18.0417.C12
Gene No.	117491	Strand	
Start	2134	End	3064
Name	OJ000223_18.0417.C12.o4.tw	Method	TBLASTX:Wheat
Start	2306	End	2740
GI	none	Score	246
Exons	2306..2740		

Seq. No.	56130	Seq. ID	OJ000223_18.0417.C12
Gene No.	117491	Strand	
Start	2134	End	3064
Name	OJ000223_18.0417.C12.o1.tm	Method	TBLASTX:Maize
Start	2342	End	2983
GI	none	Score	90
Exons	2342..2416, 2426..2731, 2759..2983		

Seq. No.	56130	Seq. ID	OJ000223_18.0417.C12
Gene No.	117491	Strand	
Start	2134	End	3064
Name	OJ000223_18.0417.C12.o2.ts	Method	TBLASTX:Soybean
Start	2522	End	2983
GI	none	Score	291
Exons	2522..2983		

Seq. No.	56130	Seq. ID	OJ000223_18.0417.C12
Gene No.	117491	Strand	
Start	2134	End	3064
Name	OJ000223_18.0417.C12.o1.tc	Method	TBLASTX:Cress
Start	2546	End	2980
GI	none	Score	293
Exons	2546..2980, 2689..2967		

Seq. No.	56130	Seq. ID	OJ000223_18.0417.C12
Gene No.	117491	Strand	
Start	2134	End	3064
Name	OJ000223_18.0417.C12.o3.tw	Method	TBLASTX:Wheat
Start	2767	End	3064
GI	none	Score	316
Exons	2767..3006, 2768..3064		

Seq. No.	56130	Seq. ID	OJ000223_18.0417.C12
Gene No.	117492	Strand	
Start	3380	End	4129
Name	OJ000223_18.0417.C12.o1.ts	Method	TBLASTX:Soybean
Start	3380	End	3886
GI	5509260	Score	338
Exons	3380..3796, 3803..3886		
GI Descrip.	-		

Seq. No.	56130	Seq. ID	OJ000223_18.0417.C12
Gene No.	117492	Strand	
Start	3380	End	4129
Name	OJ000223_18.0417.C12.o3.tm	Method	TBLASTX:Maize
Start	3428	End	3688
GI	none	Score	214
Exons	3428..3688		

Seq. No.	56130	Seq. ID	OJ000223_18.0417.C12
Gene No.	117492	Strand	
Start	3380	End	4129
Name	OJ000223_18.0417.C12.o2.tc	Method	TBLASTX:Cress
Start	3515	End	3775
GI	none	Score	292
Exons	3515..3775, 3520..3741, 3527..3775		

Seq. No.	56130	Seq. ID	OJ000223_18.0417.C12
Gene No.	117492	Strand	
Start	3380	End	4129
Name	OJ000223_18.0417.C12.o2.tw	Method	TBLASTX:Wheat
Start	3557	End	4087
GI	none	Score	221
Exons	3557..3799, 3803..3895, 3887..4087		

Seq. No.	56130	Seq. ID	OJ000223_18.0417.C12
Gene No.	117492	Strand	
Start	3380	End	4129
Name	OJ000223_18.0417.C12.o2.tm	Method	TBLASTX:Maize
Start	3692	End	4129
GI	none	Score	97
Exons	3692..3784, 3695..3763, 3800..4129, 3835..3894, 3967..4122		

Seq. No.	56130	Seq. ID	OJ000223_18.0417.C12
Gene No.	117493	Strand	
Start	4055	End	4282
Name	OJ000223_18.0417.C12.o3.ts	Method	TBLASTX:Soybean
Start	4055	End	4282
GI	none	Score	188
Exons	4055..4282		

Seq. No.	56131	Seq. ID	OJ000223_18.0417.C13
Gene No.	117494	Strand	+
Start	1	End	1115
Name	OJ000223_18.0417.C13.o1.np	Method	AAT/NAP
Start	1	End	411
GI	2961349	Score	295
Exons	1..411		
GI Descrip.	(AL022140) LTR retrotransposon like protein [Arabidopsis thaliana]		

Seq. No.	56131	Seq. ID	OJ000223_18.0417.C13
Gene No.	117494	Strand	+
Start	1	End	1115
Name	OJ000223_18.0417.C13.o1.ts	Method	TBLASTX:Soybean
Start	12	End	396
GI	none	Score	232
Exons	12..251, 13..396		

Seq. No.	56131	Seq. ID	OJ000223_18.0417.C13
Gene No.	117494	Strand	+
Start	1	End	1115
Name	OJ000223_18.0417.C13.o1.gs	Method	GENSCAN
Start	91	End	1115
GI	none	Score	.67

Exons 91..273, 655..763, 809..891, 960..1115

Seq. No.	56131	Seq. ID	OJ000223_18.0417.C13
Gene No.	117494	Strand	+
Start	1	End	1115
Name	OJ000223_18.0417.C13.o1.tm	Method	TBLASTX:Maize
Start	130	End	384
GI	none	Score	233
Exons	130..384, 135..365		

Seq. No.	56131	Seq. ID	OJ000223_18.0417.C13
Gene No.	117494	Strand	+
Start	1	End	1115
Name	OJ000223_18.0417.C13.o1.gp	Method	AAT/GAP
Start	423	End	556
GI	none	Score	224
Exons	423..556		

Seq. No.	56132	Seq. ID	OJ000223_18.0417.C14
Gene No.	117495	Strand	+
Start	50	End	1122
Name	OJ000223_18.0417.C14.o1.np	Method	AAT/NAP
Start	50	End	1122
GI	6539588	Score	225
Exons	50..390, 1076..1122		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	56133	Seq. ID	OJ000223_18.0417.C15
Gene No.	117496	Strand	+
Start	1	End	4206
Name	OJ000223_18.0417.C15.o2.np	Method	AAT/NAP
Start	1	End	4206
GI	3777527	Score	1175
Exons	1..710, 810..1082, 1470..1689, 1795..2001, 2282..3571, 3730..4206		
GI Descrip.	(AF053008) gag-pol polyprotein [Glycine max]		

Seq. No.	56133	Seq. ID	OJ000223_18.0417.C15
Gene No.	117496	Strand	+
Start	1	End	4206
Name	OJ000223_18.0417.C15.o1.gs	Method	GENSCAN
Start	164	End	4145
GI	none	Score	.52
Exons	164..921, 1177..2080, 2264..2788, 2992..3172, 3497..3657, 3663..4145		

Seq. No.	56133	Seq. ID	OJ000223_18.0417.C15
Gene No.	117496	Strand	+
Start	1	End	4206
Name	OJ000223_18.0417.C15.o1.tw	Method	TBLASTX:Wheat
Start	2869	End	3480
GI	none	Score	238
Exons	2869..3294, 2877..3002, 3066..3290, 3142..3303, 3322..3402, 3397..3480		

Seq. No.	56133	Seq. ID	OJ000223_18.0417.C15
Gene No.	117496	Strand	+

Start	1	End	4206
Name	OJ000223_18.0417.C15.o1.tm	Method	TBLASTX:Maize
Start	2911	End	3546
GI	none	Score	87
Exons	2911..2976, 2916..2978, 3039..3398, 3055..3399, 3394..3546		

Seq. No.	56133	Seq. ID	OJ000223_18.0417.C15
Gene No.	117496	Strand	+
Start	1	End	4206
Name	OJ000223_18.0417.C15.o2.ts	Method	TBLASTX:Soybean
Start	3085	End	3546
GI	none	Score	254
Exons	3085..3396, 3102..3389, 3418..3546		

Seq. No.	56133	Seq. ID	OJ000223_18.0417.C15
Gene No.	117496	Strand	+
Start	1	End	4206
Name	OJ000223_18.0417.C15.o1.tc	Method	TBLASTX:Cress
Start	3102	End	3545
GI	none	Score	173
Exons	3102..3188, 3103..3393, 3408..3545, 3409..3540		

Seq. No.	56133	Seq. ID	OJ000223_18.0417.C15
Gene No.	117496	Strand	+
Start	1	End	4206
Name	OJ000223_18.0417.C15.o2.tm	Method	TBLASTX:Maize
Start	3855	End	4159
GI	none	Score	48
Exons	3855..3932, 3939..4082, 3956..4078, 4074..4157, 4074..4157, 4097..4159		

Seq. No.	56133	Seq. ID	OJ000223_18.0417.C15
Gene No.	117496	Strand	+
Start	1	End	4206
Name	OJ000223_18.0417.C15.o1.ts	Method	TBLASTX:Soybean
Start	3861	End	4205
GI	5509260	Score	40
Exons	3861..3911, 3861..3911, 3924..4154, 3933..4205, 3950..4201		
GI Descrip.	-		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117497	Strand	+
Start	1	End	607
Name	OJ000223_18.0417.C16.o1.np	Method	AAT/NAP
Start	1	End	607
GI	4416302	Score	636
Exons	1..607		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117498	Strand	+
Start	1813	End	5086
Name	OJ000223_18.0417.C16.o2.np	Method	AAT/NAP
Start	1813	End	5086
GI	6539588	Score	222
Exons	1813..1834, 2556..2866, 5047..5086		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117498	Strand	+
Start	1813	End	5086
Name	OJ000223_18.0417.C16.o1.gp	Method	AAT/GAP
Start	1901	End	2358
GI	4968598	Score	819
Exons	1901..2358		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117499	Strand	+
Start	5751	End	12256
Name	OJ000223_18.0417.C16.o3.np	Method	AAT/NAP
Start	5751	End	12256
GI	3551531	Score	23
Exons	5751..5807, 9317..9487, 12191..12256		
GI Descrip.	(AB017437) avena [Gallus gallus]		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117499	Strand	+
Start	5751	End	12256
Name	OJ000223_18.0417.C16.o2.gs	Method	GENSCAN
Start	6036	End	6349
GI	none	Score	.46
Exons	6036..6112, 6157..6349		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117499	Strand	+
Start	5751	End	12256
Name	OJ000223_18.0417.C16.o3.gs	Method	GENSCAN
Start	7769	End	10483
GI	none	Score	.9
Exons	7769..7954, 9276..9524, 10139..10483		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117499	Strand	+
Start	5751	End	12256
Name	OJ000223_18.0417.C16.o2.gp	Method	AAT/GAP
Start	8499	End	8861
GI	2309880	Score	712
Exons	8499..8861		
GI Descrip.	4521194/dbj AB013613.1 AB013613 3.0e-60 Oryza sativa DNA, centromere sequence RCB11		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117499	Strand	+
Start	5751	End	12256
Name	OJ000223_18.0417.C16.o3.gp	Method	AAT/GAP
Start	10101	End	10772
GI	5455323	Score	1307
Exons	10101..10772		
GI Descrip.	6069646/dbj_BAA85422.1_1.0e-17 (AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa]		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117499	Strand	+
Start	5751	End	12256

Name	OJ000223_18.0417.C16.o4.np	Method	AAT/NAP
Start	10186	End	10635
GI	6069646	Score	170
Exons	10186..10635		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117499	Strand	+
Start	5751	End	12256
Name	OJ000223_18.0417.C16.o5.np	Method	AAT/NAP
Start	10546	End	11851
GI	6815099	Score	87
Exons	10546..10576, 11705..11851		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117500	Strand	-
Start	11445	End	11693
Name	OJ000223_18.0417.C16.o1.tm	Method	TBLASTX:Maize
Start	1	End	586
GI	none	Score	621
Exons	1..576, 2..586		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117500	Strand	-
Start	11445	End	11693
Name	OJ000223_18.0417.C16.o1.ts	Method	TBLASTX:Soybean
Start	2	End	616
GI	none	Score	206
Exons	2..337, 136..294, 356..616, 370..540		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117500	Strand	-
Start	11445	End	11693
Name	OJ000223_18.0417.C16.o1.tw	Method	TBLASTX:Wheat
Start	146	End	541
GI	none	Score	103
Exons	146..337, 350..541, 365..541		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117500	Strand	-
Start	11445	End	11693
Name	OJ000223_18.0417.C16.o1.tc	Method	TBLASTX:Cress
Start	221	End	586
GI	none	Score	83
Exons	221..352, 374..586		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117500	Strand	-
Start	11445	End	11693
Name	OJ000223_18.0417.C16.o2.tm	Method	TBLASTX:Maize
Start	10180	End	10608
GI	none	Score	158

Exons 10180..10350, 10459..10608

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117500	Strand	-
Start	11445	End	11693
Name	OJ000223_18.0417.C16.o2.tw	Method	TBLASTX:Wheat
Start	10186	End	10506
GI	none	Score	166
Exons	10186..10350, 10188..10340, 10468..10506		

Seq. No.	56134	Seq. ID	OJ000223_18.0417.C16
Gene No.	117500	Strand	-
Start	11445	End	11693
Name	OJ000223_18.0417.C16.o4.gs	Method	GENSCAN
Start	11445	End	11693
GI	none	Score	.66
Exons	11445..11540, 11564..11693		

Seq. No.	56135	Seq. ID	OJ000223_18.0417.C18
Gene No.	117501	Strand	+
Start	64	End	817
Name	OJ000223_18.0417.C18.o1.gs	Method	GENSCAN
Start	64	End	817
GI	none	Score	.83
Exons	64..66, 659..817		

Seq. No.	56135	Seq. ID	OJ000223_18.0417.C18
Gene No.	117501	Strand	+
Start	64	End	817
Name	OJ000223_18.0417.C18.o1.tm	Method	TBLASTX:Maize
Start	652	End	817
GI	none	Score	237
Exons	652..813, 656..817		

Seq. No.	56135	Seq. ID	OJ000223_18.0417.C18
Gene No.	117501	Strand	+
Start	64	End	817
Name	OJ000223_18.0417.C18.o1.tc	Method	TBLASTX:Cress
Start	656	End	811
GI	none	Score	240
Exons	656..811, 658..807		

Seq. No.	56135	Seq. ID	OJ000223_18.0417.C18
Gene No.	117501	Strand	+
Start	64	End	817
Name	OJ000223_18.0417.C18.o1.np	Method	AAT/NAP
Start	659	End	814
GI	4580455	Score	211
Exons	659..814		
GI Descrip.	(AC006081) unknown protein [Arabidopsis thaliana]		

Seq. No.	56135	Seq. ID	OJ000223_18.0417.C18
Gene No.	117501	Strand	+
Start	64	End	817
Name	OJ000223_18.0417.C18.o1.ts	Method	TBLASTX:Soybean
Start	664	End	808
GI	none	Score	200

Exons 664..807, 665..808

Seq. No.	56136	Seq. ID	OJ000223_18.0417.C19
Gene No.	117502	Strand	+
Start	470	End	3536
Name	OJ000223_18.0417.C19.ol.gs	Method	GENSCAN
Start	470	End	3536
GI	none	Score	.45
Exons	470..605, 2312..2425, 3119..3171, 3281..3536		

Seq. No.	56137	Seq. ID	OJ000223_18.0417.C21
Gene No.	117503	Strand	-
Start	224	End	714
Name	OJ000223_18.0417.C21.ol.np	Method	AAT/NAP
Start	224	End	714
GI	6705984	Score	365
Exons	224..714		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	56137	Seq. ID	OJ000223_18.0417.C21
Gene No.	117503	Strand	-
Start	224	End	714
Name	OJ000223_18.0417.C21.ol.tm	Method	TBLASTX:Maize
Start	282	End	488
GI	none	Score	79
Exons	282..488, 283..465		

Seq. No.	56137	Seq. ID	OJ000223_18.0417.C21
Gene No.	117503	Strand	-
Start	224	End	714
Name	OJ000223_18.0417.C21.ol.tw	Method	TBLASTX:Wheat
Start	420	End	672
GI	none	Score	36
Exons	420..491, 421..465, 519..671, 565..672		

Seq. No.	56138	Seq. ID	OJ000223_18.0417.C22
Gene No.	117504	Strand	-
Start	82	End	819
Name	OJ000223_18.0417.C22.ol.gs	Method	GENSCAN
Start	82	End	819
GI	none	Score	.68
Exons	82..219, 312..418, 507..616, 801..819		

Seq. No.	56139	Seq. ID	OJ000223_18.0417.C24
Gene No.	117505	Strand	-
Start	776	End	2695
Name	OJ000223_18.0417.C24.ol.gp	Method	AAT/GAP
Start	776	End	2695
GI	4110_1.R1084	Score	3542
Exons	776..1527, 1618..2695		
GI Descrip.	'2130082/pir A57676 9.0e-74 protein kinase Xa21 (EC 2.7.1.-) - rice >gi_1122443 (U37133) receptor kinase-like protein [Oryza sativa] >gi_2586085 (U72723) receptor kinase-like protein [Oryza longistaminata] >gi_1586408_prf_2203451A receptor kinase-like protein [Oryza sativa]'		

Seq. No.	56139	Seq. ID	OJ000223_18.0417.C24
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Gene No.	117505	Strand	-
Start	776	End	2695
Name	OJ000223_18.0417.C24.o1.gs	Method	GENSCAN
Start	1121	End	2647
GI	none	Score	.72
Exons	1121..1527, 1618..2647		

Seq. No.	56139	Seq. ID	OJ000223_18.0417.C24
Gene No.	117505	Strand	-
Start	776	End	2695
Name	OJ000223_18.0417.C24.o1.np	Method	AAT/NAP
Start	1157	End	2695
GI	7434424	Score	898
Exons	1157..1527, 1618..2695		
GI Descrip.	protein kinase Xa21 (EC 2.7.1.-) A1, receptor type - long-staminate rice gi 2586083 gb AAB82755.1 (U72725) receptor kinase-like protein [Oryza longistaminata]		

Seq. No.	56139	Seq. ID	OJ000223_18.0417.C24
Gene No.	117505	Strand	-
Start	776	End	2695
Name	OJ000223_18.0417.C24.o3.tm	Method	TBLASTX:Maize
Start	1172	End	1663
GI	none	Score	113
Exons	1172..1348, 1188..1304, 1311..1529, 1313..1531, 1313..1528, 1314..1538, 1351..1539, 1619..1663, 1620..1661		

Seq. No.	56139	Seq. ID	OJ000223_18.0417.C24
Gene No.	117505	Strand	-
Start	776	End	2695
Name	OJ000223_18.0417.C24.o1.ts	Method	TBLASTX:Soybean
Start	1346	End	2203
GI	none	Score	94
Exons	1346..1528, 1395..1529, 1619..2095, 1698..1859, 1890..2096, 2114..2203		

Seq. No.	56139	Seq. ID	OJ000223_18.0417.C24
Gene No.	117505	Strand	-
Start	776	End	2695
Name	OJ000223_18.0417.C24.o1.tc	Method	TBLASTX:Cress
Start	1433	End	2203
GI	none	Score	156
Exons	1433..1528, 1694..1864, 1892..1942, 1979..2203		

Seq. No.	56139	Seq. ID	OJ000223_18.0417.C24
Gene No.	117505	Strand	-
Start	776	End	2695
Name	OJ000223_18.0417.C24.o1.tm	Method	TBLASTX:Maize
Start	1665	End	2059
GI	none	Score	325
Exons	1665..2033, 1665..1820, 1666..2034, 1685..2059, 1685..2032		

Seq. No.	56139	Seq. ID	OJ000223_18.0417.C24
Gene No.	117505	Strand	-
Start	776	End	2695
Name	OJ000223_18.0417.C24.o2.tm	Method	TBLASTX:Maize
Start	2299	End	2668

GI	none	Score	177
Exons	2299..2412, 2300..2518, 2301..2516, 2508..2654, 2520..2579, 2525..2668		

Seq. No.	56139	Seq. ID	OJ000223_18.0417.C24
Gene No.	117505	Strand	-
Start	776	End	2695
Name	OJ000223_18.0417.C24.o2.ts	Method	TBLASTX:Soybean
Start	2399	End	2689
GI	none	Score	66
Exons	2399..2689, 2403..2495, 2471..2662		

Seq. No.	56139	Seq. ID	OJ000223_18.0417.C24
Gene No.	117505	Strand	-
Start	776	End	2695
Name	OJ000223_18.0417.C24.o2.tc	Method	TBLASTX:Cress
Start	2411	End	2695
GI	none	Score	189
Exons	2411..2695, 2465..2689, 2471..2689, 2471..2689, 2495..2689		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117506	Strand	+
Start	13366	End	18824
Name	OJ000223_18.0417.C25.o2.gs	Method	GENSCAN
Start	13366	End	15229
GI	none	Score	.95
Exons	13366..13381, 13809..15229		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117506	Strand	+
Start	13366	End	18824
Name	OJ000223_18.0417.C25.o3.np	Method	AAT/NAP
Start	13758	End	18824
GI	6466937	Score	1727
Exons	13758..13997, 14154..15264, 16587..18824		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117506	Strand	+
Start	13366	End	18824
Name	OJ000223_18.0417.C25.o2.np	Method	AAT/NAP
Start	13899	End	18824
GI	6466937	Score	1710
Exons	13899..15264, 16587..18824		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117506	Strand	+
Start	13366	End	18824
Name	OJ000223_18.0417.C25.o3.gs	Method	GENSCAN
Start	16143	End	18791
GI	none	Score	.59
Exons	16143..16196, 16585..18445, 18527..18791		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
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Gene No.	117507	Strand	-
Start	7194	End	18824
Name	OJ000223_18.0417.C25.o1.tc	Method	TBLASTX:Cress
Start	7188	End	12972
GI	none	Score	40
Exons	7188..7238, 7305..7358, 7660..7689, 7661..7693, 7781..7882, 7786..7899, 10712..10783, 11397..11453, 11397..11480, 11404..11481, 11553..11615, 11555..11620, 11562..11621, 11667..11759, 11850..11948, 11938..11991, 12209..12286, 12213..12293, 12302..12334, 12410..12451, 12470..12538, 12471..12539, 12616..12663, 12620..12649, 12907..12972		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117507	Strand	-
Start	7194	End	18824
Name	OJ000223_18.0417.C25.o1.np	Method	AAT/NAP
Start	7194	End	18824
GI	4510428	Score	695
Exons	7194..7357, 7659..7690, 7784..7881, 10703..10773, 11345..11477, 11555..11618, 11695..11757, 11851..11991, 12197..12334, 12413..12537, 12612..12753, 12842..12960, 18009..18176, 18675..18824		

GI Descrip. (AC006929) Argonaute (AGO1)-like protein [Arabidopsis thaliana]

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117507	Strand	-
Start	7194	End	18824
Name	OJ000223_18.0417.C25.o7.tm	Method	TBLASTX:Maize
Start	7660	End	11756
GI	none	Score	66
Exons	7660..7689, 7786..7899, 10709..10780, 10712..10783, 10716..10811, 11394..11480, 11395..11478, 11555..11617, 11555..11620, 11694..11756		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117507	Strand	-
Start	7194	End	18824
Name	OJ000223_18.0417.C25.o5.ts	Method	TBLASTX:Soybean
Start	11817	End	12972
GI	none	Score	68
Exons	11817..11948, 11938..11991, 12209..12286, 12213..12287, 12302..12334, 12410..12451, 12411..12461, 12470..12538, 12483..12539, 12616..12663, 12907..12972		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117507	Strand	-
Start	7194	End	18824
Name	OJ000223_18.0417.C25.o3.tm	Method	TBLASTX:Maize
Start	12206	End	12945
GI	none	Score	120
Exons	12206..12334, 12207..12335, 12212..12358, 12410..12457, 12411..12458, 12450..12545, 12473..12544, 12608..12658, 12610..12720, 12877..12945		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117507	Strand	-
Start	7194	End	18824

Name	OJ000223_18.0417.C25.o3.tw	Method	TBLASTX:Wheat
Start	12209	End	12539
GI	none	Score	78
Exons	12209..12286, 12213..12293, 12302..12334, 12410..12460, 12411..12449, 12458..12538, 12459..12539		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117507	Strand	-
Start	7194	End	18824
Name	OJ000223_18.0417.C25.o5.tm	Method	TBLASTX:Maize
Start	14114	End	14388
GI	none	Score	267
Exons	14114..14377, 14146..14388, 14155..14388		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117507	Strand	-
Start	7194	End	18824
Name	OJ000223_18.0417.C25.o8.tm	Method	TBLASTX:Maize
Start	14549	End	14868
GI	none	Score	63
Exons	14549..14626, 14549..14614, 14557..14625, 14729..14854, 14732..14851, 14734..14868		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117507	Strand	-
Start	7194	End	18824
Name	OJ000223_18.0417.C25.o1.tw	Method	TBLASTX:Wheat
Start	16861	End	17346
GI	none	Score	399
Exons	16861..17346, 16959..17288, 16978..17304		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117507	Strand	-
Start	7194	End	18824
Name	OJ000223_18.0417.C25.o4.ts	Method	TBLASTX:Soybean
Start	16900	End	17214
GI	none	Score	210
Exons	16900..17214		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117507	Strand	-
Start	7194	End	18824
Name	OJ000223_18.0417.C25.o1.tm	Method	TBLASTX:Maize
Start	16914	End	17400
GI	none	Score	495
Exons	16914..17318, 16915..17400		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117507	Strand	-
Start	7194	End	18824
Name	OJ000223_18.0417.C25.o1.ts	Method	TBLASTX:Soybean
Start	17323	End	17673
GI	none	Score	321
Exons	17323..17673, 17394..17657		

Seq. No.	56140	Seq. ID	OJ000223_18.0417.C25
Gene No.	117507	Strand	-

Start 7194
Name OJ000223_18.0417.C25.o2.tw
Start 17395
GI none
Exons 17395..17673, 17677..17793

End 18824
Method TBLASTX:Wheat
End 17793
Score 246

Seq. No. 56140
Gene No. 117507
Start 7194
Name OJ000223_18.0417.C25.o2.tm
Start 17473
GI none
Exons 17473..17892, 17496..17885

Seq. ID OJ000223_18.0417.C25
Strand -
End 18824
Method TBLASTX:Maize
End 17892
Score 459

Seq. No. 56140
Gene No. 117507
Start 7194
Name OJ000223_18.0417.C25.o3.ts
Start 17703
GI none
Exons 17703..17852, 17704..17949

Seq. ID OJ000223_18.0417.C25
Strand -
End 18824
Method TBLASTX:Soybean
End 17949
Score 210

Seq. No. 56140
Gene No. 117507
Start 7194
Name OJ000223_18.0417.C25.o6.tm
Start 18052
GI none
Exons 18052..18396

Seq. ID OJ000223_18.0417.C25
Strand -
End 18824
Method TBLASTX:Maize
End 18396
Score 231

Seq. No. 56140
Gene No. 117507
Start 7194
Name OJ000223_18.0417.C25.o4.tm
Start 18432
GI none
Exons 18432..18464, 18495..18824, 18517..18822

Seq. ID OJ000223_18.0417.C25
Strand -
End 18824
Method TBLASTX:Maize
End 18824
Score 303

Seq. No. 56140
Gene No. 117507
Start 7194
Name OJ000223_18.0417.C25.o2.ts
Start 18460
GI none
Exons 18460..18762, 18471..18761

Seq. ID OJ000223_18.0417.C25
Strand -
End 18824
Method TBLASTX:Soybean
End 18762
Score 232

Seq. No. 56140
Gene No. 117507
Start 7194
Name OJ000223_18.0417.C25.o4.tw
Start 18610
GI none
Exons 18610..18822, 18684..18821

Seq. ID OJ000223_18.0417.C25
Strand -
End 18824
Method TBLASTX:Wheat
End 18822
Score 183

Seq. No. 56141
Gene No. 117508
Start 585

Seq. ID OJ000223_18.0417.C26
Strand -
End 888

Name	OJ000223_18.0417.C26.o1.np	Method	AAT/NAP
Start	585	End	888
GI	2149640	Score	64
Exons	585..656, 745..888		
GI Descrip.	(U91995) Argonaute protein [Arabidopsis thaliana] gi 5733867 gb AAD49755.1 AC007932_3 (AC007932) Identical to gb U91995 Argonaute protein from Arabidopsis thaliana. ESTs gb H76075, gb AA720232, gb N65911 and gb AA651494 come from this gene.		

Seq. No.	56142	Seq. ID	OJ000323_11.0419.C3
Gene No.	117509	Strand	+
Start	1437	End	1611
Name	OJ000323_11.0419.C3.o1.gs	Method	GENSCAN
Start	1437	End	1611
GI	none	Score	.53
Exons	1437..1611		

Seq. No.	56142	Seq. ID	OJ000323_11.0419.C3
Gene No.	117510	Strand	-
Start	1581	End	1838
Name	OJ000323_11.0419.C3.o1.np	Method	AAT/NAP
Start	1581	End	1838
GI	544262	Score	65
Exons	1581..1838		
GI Descrip.	PISTIL-SPECIFIC EXTENSIN-LIKE PROTEIN PRECURSOR (PELP) gi 322761 pir JQ1696 pistil extensin-like protein precursor (clone PMG15) - common tobacco gi 19929 emb CAA78397 (Z14019) pistil extensin like protein [Nicotiana tabacum]		

Seq. No.	56143	Seq. ID	OJ000323_11.0419.C4
Gene No.	117511	Strand	+
Start	4337	End	7883
Name	OJ000323_11.0419.C4.o2.gs	Method	GENSCAN
Start	4337	End	7011
GI	none	Score	.41
Exons	4337..4435, 4665..4877, 5272..6173, 6217..6752, 6863..7011		

Seq. No.	56143	Seq. ID	OJ000323_11.0419.C4
Gene No.	117511	Strand	+
Start	4337	End	7883
Name	OJ000323_11.0419.C4.o1.np	Method	AAT/NAP
Start	6007	End	7883
GI	6630696	Score	3228
Exons	6007..7883		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	56143	Seq. ID	OJ000323_11.0419.C4
Gene No.	117511	Strand	+
Start	4337	End	7883
Name	OJ000323_11.0419.C4.o1.gp	Method	AAT/GAP
Start	6049	End	6937
GI	101595_1.R1084	Score	1431
Exons	6049..6747, 6863..6937		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to		

retrovirus-related POL polyproteins [Arabidopsis thaliana]

Seq. No.	56143	Seq. ID	OJ000323_11.0419.C4
Gene No.	117512	Strand	-
Start	399	End	3837
Name	OJ000323_11.0419.C4.o1.gs	Method	GENSCAN
Start	399	End	3837
GI	none	Score	.69
Exons	399..710, 843..923, 1261..2190, 2643..2708, 3835..3837		

Seq. No.	56143	Seq. ID	OJ000323_11.0419.C4
Gene No.	117513	Strand	-
Start	7259	End	7411
Name	OJ000323_11.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	5901	End	6295
GI	none	Score	128
Exons	5901..5999, 5902..6036, 6013..6201, 6087..6206, 6200..6295, 6200..6295		

Seq. No.	56143	Seq. ID	OJ000323_11.0419.C4
Gene No.	117513	Strand	-
Start	7259	End	7411
Name	OJ000323_11.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	6049	End	6355
GI	none	Score	131
Exons	6049..6201, 6096..6200, 6199..6276, 6203..6355, 6206..6352		

Seq. No.	56143	Seq. ID	OJ000323_11.0419.C4
Gene No.	117513	Strand	-
Start	7259	End	7411
Name	OJ000323_11.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	6878	End	7222
GI	none	Score	389
Exons	6878..7150, 6879..7151, 6879..7151, 6880..7152, 6880..7152, 7181..7222		

Seq. No.	56143	Seq. ID	OJ000323_11.0419.C4
Gene No.	117513	Strand	-
Start	7259	End	7411
Name	OJ000323_11.0419.C4.o3.gs	Method	GENSCAN
Start	7259	End	7411
GI	none	Score	.82
Exons	7259..7411		

Seq. No.	56143	Seq. ID	OJ000323_11.0419.C4
Gene No.	117514	Strand	-
Start	7333	End	7844
Name	OJ000323_11.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	7333	End	7797
GI	none	Score	313
Exons	7333..7797, 7572..7790		

Seq. No.	56143	Seq. ID	OJ000323_11.0419.C4
Gene No.	117514	Strand	-
Start	7333	End	7844
Name	OJ000323_11.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	7440	End	7844

GI none Score 328
Exons 7440..7688, 7441..7689, 7662..7844, 7663..7842

Seq. No.	56143	Seq. ID	OJ000323_11.0419.C4
Gene No.	117514	Strand	
Start	7333	End	7844
Name	OJ000323_11.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	7585	End	7806
GI	none	Score	207
Exons	7585..7806, 7587..7802		

Seq. No.	56144	Seq. ID	OJ000323_11.0419.C5
Gene No.	117515	Strand	+
Start	1	End	1549
Name	OJ000323_11.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	1549
GI	6630696	Score	2662
Exons	1..1549		

GI Descrip. (AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related polypeptide from transposon Tnt 1-94. (P10978) [Oryza sativa]

Seq. No.	56144	Seq. ID	OJ000323_11.0419.C5
Gene No.	117515	Strand	+
Start	1	End	1549
Name	OJ000323_11.0419.C5.o3.tw	Method	TBLASTX:Wheat
Start	1	End	237
GI	none	Score	296
Exons	1..237, 2..232, 48..233		

Seq. No.	56144	Seq. ID	OJ000323_11.0419.C5
Gene No.	117515	Strand	+
Start	1	End	1549
Name	OJ000323_11.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	157	End	606
GI	5509260	Score	387
Exons	157..606, 252..413, 367..507		
GI Descrip.	-		

Seq. No.	56144	Seq. ID	OJ000323_11.0419.C5
Gene No.	117515	Strand	+
Start	1	End	1549
Name	OJ000323_11.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	250	End	510
GI	none	Score	291
Exons	250..510, 252..422		

Seq. No.	56144	Seq. ID	OJ000323_11.0419.C5
Gene No.	117515	Strand	+
Start	1	End	1549
Name	OJ000323_11.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	291	End	756
GI	none	Score	360
Exons	291..422, 292..756, 427..507, 543..653		

Seq. No.	56144	Seq. ID	OJ000323_11.0419.C5
Gene No.	117515	Strand	+

Start	1	End	1549
Name	OJ000323_11.0419.C5.o2.tw	Method	TBLASTX:Wheat
Start	292	End	1044
GI	none	Score	313
Exons	292..636, 309..473, 631..837, 991..1044		
Seq. No.	56144	Seq. ID	OJ000323_11.0419.C5
Gene No.	117515	Strand	+
Start	1	End	1549
Name	OJ000323_11.0419.C5.o2.ts	Method	TBLASTX:Soybean
Start	690	End	1041
GI	none	Score	146
Exons	690..854, 691..849, 849..1037, 850..1038, 859..1041		
Seq. No.	56144	Seq. ID	OJ000323_11.0419.C5
Gene No.	117515	Strand	+
Start	1	End	1549
Name	OJ000323_11.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	817	End	1188
GI	none	Score	358
Exons	817..1188, 840..1187		
Seq. No.	56144	Seq. ID	OJ000323_11.0419.C5
Gene No.	117515	Strand	+
Start	1	End	1549
Name	OJ000323_11.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	1045	End	1520
GI	none	Score	105
Exons	1045..1119, 1046..1105, 1050..1118, 1134..1520, 1135..1518		
Seq. No.	56144	Seq. ID	OJ000323_11.0419.C5
Gene No.	117515	Strand	+
Start	1	End	1549
Name	OJ000323_11.0419.C5.o3.ts	Method	TBLASTX:Soybean
Start	1051	End	1392
GI	none	Score	97
Exons	1051..1164, 1086..1154, 1183..1392, 1188..1313		
Seq. No.	56145	Seq. ID	OJ000323_11.0419.C6
Gene No.	117516	Strand	+
Start	1	End	3886
Name	OJ000323_11.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	3886
GI	2842424	Score	103
Exons	1..21, 441..584, 668..904, 959..1073, 1162..1378, 3827..3886		
GI Descrip.	(AJ223948) RNA helicase [Homo sapiens]		
Seq. No.	56145	Seq. ID	OJ000323_11.0419.C6
Gene No.	117516	Strand	+
Start	1	End	3886
Name	OJ000323_11.0419.C6.o2.np	Method	AAT/NAP
Start	1	End	3886
GI	7267243	Score	32
Exons	1..41, 2009..2182, 3861..3886		
GI Descrip.	(AL161501) putative potassium transporter [Arabidopsis thaliana]		
Seq. No.	56145	Seq. ID	OJ000323_11.0419.C6

Gene No.	117516	Strand	+
Start	1	End	3886
Name	OJ000323_11.0419.C6.o1.gs	Method	GENSCAN
Start	8	End	469
GI	none	Score	.65
Exons	8..469		

Seq. No.	56145	Seq. ID	OJ000323_11.0419..C6
Gene No.	117516	Strand	+
Start	1	End	3886
Name	OJ000323_11.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	444	End	844
GI	none	Score	72
Exons	444..509, 537..593, 539..580, 662..844, 673..831		

Seq. No.	56146	Seq. ID	OJ000323_11.0419.C7
Gene No.	117517	Strand	+
Start	102	End	1414
Name	OJ000323_11.0419.C7.o1.gs	Method	GENSCAN
Start	102	End	1414
GI	none	Score	.5
Exons	102..148, 1134..1308, 1331..1414		

Seq. No.	56146	Seq. ID	OJ000323_11.0419.C7
Gene No.	117518	Strand	+
Start	1405	End	1901
Name	OJ000323_11.0419.C7.o1.gp	Method	AAT/GAP
Start	1405	End	1901
GI	uC-osflcyp134g08a1	Score	986
Exons	1405..1901		
GI Descrip.	'5803254/dbj BAA83564.1 5.0e-11 (AP000399) ESTs C97429(C60159),D22427(C11106), AU078031(E31854),D15683(C1084) correspond to a region of the predicted gene; hypothetical protein [Oryza sativa]'		

Seq. No.	56146	Seq. ID	OJ000323_11.0419.C7
Gene No.	117519	Strand	-
Start	1701	End	2285
Name	OJ000323_11.0419.C7.o1.np	Method	AAT/NAP
Start	1698	End	2285
GI	5803254	Score	333
Exons	1698..2033, 2121..2285		
GI Descrip.	(AP000399) ESTs C97429(C60159),D22427(C11106), AU078031(E31854),D15683(C1084) correspond to a region of the predicted gene; hypothetical protein [Oryza sativa]		

Seq. No.	56146	Seq. ID	OJ000323_11.0419.C7
Gene No.	117519	Strand	-
Start	1701	End	2285
Name	OJ000323_11.0419.C7.o2.gs	Method	GENSCAN
Start	1701	End	2069
GI	none	Score	.61
Exons	1701..2069		

Seq. No.	56146	Seq. ID	OJ000323_11.0419.C7
Gene No.	117519	Strand	-
Start	1701	End	2285

Name	OJ000323_11.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	1706	End	2021
GI	none	Score	68
Exons	1706..1795, 1710..1820, 1710..1820, 1711..1821, 1830..1865, 1876..1983, 1877..2008, 1879..2019, 1881..2021		

Seq. No.	56147	Seq. ID	OJ000323_11.0419.C8
Gene No.	117520	Strand	+
Start	1	End	1557
Name	OJ000323_11.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	1557
GI	5777623	Score	718
Exons	1..491, 1061..1121, 1383..1557		
GI Descrip.	(AJ245900) CAA303711.1 protein [Oryza sativa]		

Seq. No.	56147	Seq. ID	OJ000323_11.0419.C8
Gene No.	117521	Strand	-
Start	153	End	572
Name	OJ000323_11.0419.C8.o1.gs	Method	GENSCAN
Start	153	End	572
GI	none	Score	.89
Exons	153..572		

Seq. No.	56147	Seq. ID	OJ000323_11.0419.C8
Gene No.	117522	Strand	-
Start	1465	End	4516
Name	OJ000323_11.0419.C8.o2.np	Method	AAT/NAP
Start	1465	End	4516
GI	4680186	Score	187
Exons	1465..1882, 2363..2421, 4451..4516		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	56147	Seq. ID	OJ000323_11.0419.C8
Gene No.	117522	Strand	-
Start	1465	End	4516
Name	OJ000323_11.0419.C8.o3.np	Method	AAT/NAP
Start	2635	End	3090
GI	5803254	Score	344
Exons	2635..3090		
GI Descrip.	(AP000399) ESTs C97429(C60159), D22427(C11106), AU078031(E31854), D15683(C1084) correspond to a region of the predicted gene; hypothetical protein [Oryza sativa]		

Seq. No.	56148	Seq. ID	OJ000323_11.0419.C9
Gene No.	117523	Strand	+
Start	262	End	2468
Name	OJ000323_11.0419.C9.o1.np	Method	AAT/NAP
Start	262	End	2468
GI	7441831	Score	89
Exons	262..425, 1727..2063, 2364..2468		
GI Descrip.	extensin - soybean gi 1165322 gb AAB53156.1 (U44838) extensin [Glycine max]		

Seq. No.	56148	Seq. ID	OJ000323_11.0419.C9
Gene No.	117523	Strand	+
Start	262	End	2468
Name	OJ000323_11.0419.C9.o1.gs	Method	GENSCAN

Start 358
 GI none
 Exons 358..387, 437..648, 749..892

End 892
 Score .47

Seq. No. 56148
 Gene No. 117524
 Start 1119
 Name OJ000323_11.0419.C9.o2.gs
 Start 1119
 GI none
 Exons 1119..1213, 1899..2337

Seq. ID OJ000323_11.0419.C9
 Strand -
 End 2337
 Method GENSCAN
 End 2337
 Score .56

Seq. No. 56149
 Gene No. 117525
 Start 1
 Name OJ000323_11.0419.C10.o1.gs
 Start 1
 GI none
 Exons 1..67, 94..262, 325..3638, 3918..4483

Seq. ID OJ000323_11.0419.C10
 Strand +
 End 4953
 Method GENSCAN
 End 4483
 Score .67

Seq. No. 56149
 Gene No. 117525
 Start 1
 Name OJ000323_11.0419.C10.o1.gp
 Start 4112
 GI none
 Exons 4112..4554, 4915..4953

Seq. ID OJ000323_11.0419.C10
 Strand +
 End 4953
 Method AAT/GAP
 End 4953
 Score 848

Seq. No. 56149
 Gene No. 117526
 Start 5636
 Name OJ000323_11.0419.C10.o2.gp
 Start 5636
 GI 38010_1.R1084
 Exons 5636..6348

Seq. ID OJ000323_11.0419.C10
 Strand +
 End 6348
 Method AAT/GAP
 End 6348
 Score 1314

GI Descrip. '3915039/sp|Q41144|STC_RICCO 3.0e-35 SUGAR CARRIER PROTEIN C
 >gi_169718 (L08196) sugar carrier protein [Ricinus communis]'

Seq. No. 56149
 Gene No. 117527
 Start 19073
 Name OJ000323_11.0419.C10.o4.gs
 Start 19073
 GI none
 Exons 19073..19363

Seq. ID OJ000323_11.0419.C10
 Strand +
 End 19363
 Method GENSCAN
 End 19363
 Score .98

Seq. No. 56149
 Gene No. 117528
 Start 22140
 Name OJ000323_11.0419.C10.o5.gs
 Start 22140
 GI none
 Exons 22140..22672, 22998..23085

Seq. ID OJ000323_11.0419.C10
 Strand +
 End 23085
 Method GENSCAN
 End 23085
 Score .73

Seq. No. 56149
 Gene No. 117529
 Start 5873

Seq. ID OJ000323_11.0419.C10
 Strand -
 End 12446

Name OJ000323_11.0419.C10.o2.np Method AAT/NAP
 Start 5852 End 10178
 GI 7446741 Score 2077
 Exons 5852..6843, 6945..7073, 8951..9270, 10046..10178
 GI Descrip. probable hexose transport protein F9D12.17 - Arabidopsis thaliana gi|3319354|gb|AAC26243.1| (AF077407) contains similarity to sugar transporters (Pfam: sugar_tr.hmm, score: 395.39) [Arabidopsis thaliana]

Seq. No. 56149 Seq. ID OJ000323_11.0419.C10
 Gene No. 117529 Strand -
 Start 5873 End 12446
 Name OJ000323_11.0419.C10.o2.gs Method GENSCAN
 Start 5873 End 12446
 GI none Score .69
 Exons 5873..6745, 6763..6844, 6949..7089, 8925..9270, 10046..10235, 10393..10487, 10555..10831, 11835..11940, 11946..11978, 12018..12359, 12373..12446

Seq. No. 56149 Seq. ID OJ000323_11.0419.C10
 Gene No. 117529 Strand -
 Start 5873 End 12446
 Name OJ000323_11.0419.C10.o3.gp Method AAT/GAP
 Start 6639 End 7076
 GI LIB3432-047-P2-K11-D7 Score 613
 Exons 6639..6844, 6949..7076
 GI Descrip. '3582000/emb|CAA09419.1| 2.0e-50 (AJ010942) hexose transporter protein [Lycopersicon esculentum]'

Seq. No. 56149 Seq. ID OJ000323_11.0419.C10
 Gene No. 117530 Strand -
 Start 16302 End 18038
 Name OJ000323_11.0419.C10.o4.gp Method AAT/GAP
 Start 16058 End 16769
 GI 88764_1.R1084 Score 1258
 Exons 16058..16769
 GI Descrip. '4263707/gb|AAD15393| -8.0e-24 (AC006223) putative 70kD heat shock protein [Arabidopsis thaliana]'

Seq. No. 56149 Seq. ID OJ000323_11.0419.C10
 Gene No. 117530 Strand -
 Start 16302 End 18038
 Name OJ000323_11.0419.C10.o3.gs Method GENSCAN
 Start 16302 End 18038
 GI none Score .98
 Exons 16302..18038

Seq. No. 56149 Seq. ID OJ000323_11.0419.C10
 Gene No. 117530 Strand -
 Start 16302 End 18038
 Name OJ000323_11.0419.C10.o3.np Method AAT/NAP
 Start 16311 End 18038
 GI 4263707 Score 1926
 Exons 16311..17155, 17189..18038
 GI Descrip. (AC006223) 70kD heat shock protein [Arabidopsis thaliana]

Seq. No. 56149 Seq. ID OJ000323_11.0419.C10

Gene No.	117530	Strand	-
Start	16302	End	18038
Name	OJ000323_11.0419.C10.o5.gp	Method	AAT/GAP
Start	16761	End	17324
GI	3760128	Score	1088
Exons	16761..17324		
GI Descrip.	4263707/gb AAD15393 8.0e-53 (AC006223) putative 70kD heat shock protein [Arabidopsis thaliana]		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117530	Strand	-
Start	16302	End	18038
Name	OJ000323_11.0419.C10.o6.gp	Method	AAT/GAP
Start	17494	End	17945
GI	2312484	Score	877
Exons	17494..17945		
GI Descrip.	4263707/gb AAD15393 5.0e-44 (AC006223) putative 70kD heat shock protein [Arabidopsis thaliana]		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117531	Strand	-
Start	21266	End	21555
Name	OJ000323_11.0419.C10.o7.gp	Method	AAT/GAP
Start	21266	End	21555
GI	15591_1.R1084	Score	432
Exons	21266..21555		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 2.0e-14 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117532	Strand	-
Start	21703	End	22655
Name	OJ000323_11.0419.C10.o4.np	Method	AAT/NAP
Start	21703	End	22655
GI	6907106	Score	393
Exons	21703..21908, 21981..22524, 22555..22655		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117533	Strand	-
Start	23479	End	23697
Name	OJ000323_11.0419.C10.o2.tc	Method	TBLASTX:Cress
Start	395	End	3561
GI	none	Score	384
Exons	395..481, 2935..3063, 2966..3355, 3109..3327, 3379..3561, 3380..3550		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117533	Strand	-
Start	23479	End	23697
Name	OJ000323_11.0419.C10.o9.tm	Method	TBLASTX:Maize
Start	1751	End	2255
GI	none	Score	109
Exons	1751..2008, 1751..1987, 1982..2254, 2024..2254, 2025..2255		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
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Gene No.	117533	Strand	-
Start	23479	End	23697
Name	OJ000323_11.0419.C10.o4.tm	Method	TBLASTX:Maize
Start	2822	End	4468
GI	none	Score	687
Exons	2822..3604, 2906..3499, 2911..3627, 4169..4468, 4195..4464		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117533	Strand	-
Start	23479	End	23697
Name	OJ000323_11.0419.C10.o3.ts	Method	TBLASTX:Soybean
Start	2917	End	4423
GI	none	Score	519
Exons	2917..3348, 2918..3349, 3111..3365, 3350..3637, 3353..3637, 3373..3672, 4163..4423, 4192..4422		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117533	Strand	-
Start	23479	End	23697
Name	OJ000323_11.0419.C10.o3.tw	Method	TBLASTX:Wheat
Start	3293	End	3511
GI	none	Score	222
Exons	3293..3511, 3299..3487, 3301..3510		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117533	Strand	-
Start	23479	End	23697
Name	OJ000323_11.0419.C10.o4.tc	Method	TBLASTX:Cress
Start	4190	End	4477
GI	none	Score	224
Exons	4190..4477, 4198..4473		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117533	Strand	-
Start	23479	End	23697
Name	OJ000323_11.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	5882	End	10173
GI	none	Score	50
Exons	5882..5974, 5889..5972, 5981..6280, 5982..6281, 6314..6691, 6315..6668, 6689..6832, 6694..6834, 6948..7076, 6949..7092, 8948..9217, 8955..9155, 9188..9271, 9222..9272, 10044..10127, 10045..10173		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117533	Strand	-
Start	23479	End	23697
Name	OJ000323_11.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	5912	End	6545
GI	none	Score	778
Exons	5912..6544, 5928..6545		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117533	Strand	-
Start	23479	End	23697
Name	OJ000323_11.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	5913	End	10170
GI	none	Score	813

Exons 5913..6668, 5927..6691, 6689..6835, 6694..6834, 6949..7074,
6954..7076, 8948..9196, 8955..9071, 9138..9170, 9197..9271,
9222..9272, 10044..10130, 10045..10170

Seq. No. 56149 Seq. ID OJ000323_11.0419.C10
Gene No. 117533 Strand -
Start 23479 End 23697
Name OJ000323_11.0419.C10.o2.tw Method TBLASTX:Wheat
Start 5925 End 6284
GI none Score 294
Exons 5925..6284, 5981..6283

Seq. No. 56149 Seq. ID OJ000323_11.0419.C10
Gene No. 117533 Strand -
Start 23479 End 23697
Name OJ000323_11.0419.C10.o4.tw Method TBLASTX:Wheat
Start 6320 End 6617
GI none Score 83
Exons 6320..6577, 6437..6592, 6447..6617

Seq. No. 56149 Seq. ID OJ000323_11.0419.C10
Gene No. 117533 Strand -
Start 23479 End 23697
Name OJ000323_11.0419.C10.o6.tw Method TBLASTX:Maize
Start 6548 End 7026
GI none Score 111
Exons 6548..6691, 6549..6668, 6689..6838, 6694..6843, 6954..7025,
6955..7026

Seq. No. 56149 Seq. ID OJ000323_11.0419.C10
Gene No. 117533 Strand -
Start 23479 End 23697
Name OJ000323_11.0419.C10.o7.tw Method TBLASTX:Maize
Start 9039 End 10149
GI none Score 43
Exons 9039..9062, 9041..9064, 9101..9271, 9138..9272, 9221..9274,
10044..10130, 10045..10149

Seq. No. 56149 Seq. ID OJ000323_11.0419.C10
Gene No. 117533 Strand -
Start 23479 End 23697
Name OJ000323_11.0419.C10.o2.tw Method TBLASTX:Maize
Start 16296 End 16896
GI none Score 455
Exons 16296..16895, 16296..16895, 16306..16896

Seq. No. 56149 Seq. ID OJ000323_11.0419.C10
Gene No. 117533 Strand -
Start 23479 End 23697
Name OJ000323_11.0419.C10.o2.ts Method TBLASTX:Soybean
Start 16312 End 17246
GI none Score 115
Exons 16312..16437, 16314..16436, 16315..16437, 16365..16439,
16443..16937, 16444..16935, 16674..16946, 16936..17160,
16938..17246, 16956..17246

Seq. No. 56149 Seq. ID OJ000323_11.0419.C10

Gene No.	117533	Strand	-
Start	23479	End	23697
Name	OJ000323_11.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	16458	End	19138
GI	none	Score	117
Exons	16458..16760, 16459..16740, 16783..17028, 16785..17042, 17267..17359, 17359..17397, 17410..17532, 17415..17651, 17647..17742, 17697..17759, 17817..17957, 19100..19138		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117533	Strand	-
Start	23479	End	23697
Name	OJ000323_11.0419.C10.o3.tc	Method	TBLASTX:Cress
Start	16458	End	17957
GI	none	Score	121
Exons	16458..16760, 16459..16740, 16783..16935, 16785..17042, 17267..17323, 17415..17759, 17817..17957		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117533	Strand	-
Start	23479	End	23697
Name	OJ000323_11.0419.C10.o5.tm	Method	TBLASTX:Maize
Start	16897	End	17297
GI	none	Score	373
Exons	16897..17280, 16899..17297		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117533	Strand	-
Start	23479	End	23697
Name	OJ000323_11.0419.C10.o4.ts	Method	TBLASTX:Soybean
Start	17247	End	18042
GI	none	Score	436
Exons	17247..17816, 17248..17781, 17793..17996, 17812..17967, 17967..18041, 17979..18041, 17980..18042		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117533	Strand	-
Start	23479	End	23697
Name	OJ000323_11.0419.C10.o3.tm	Method	TBLASTX:Maize
Start	17486	End	18017
GI	none	Score	523
Exons	17486..18007, 17487..17963, 17487..18017, 17488..17982		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117533	Strand	-
Start	23479	End	23697
Name	OJ000323_11.0419.C10.o8.tm	Method	TBLASTX:Maize
Start	21800	End	22270
GI	none	Score	75
Exons	21800..21841, 21802..21933, 21803..21856, 21822..21932, 21868..21933, 21870..22067, 21907..21960, 21936..21968, 21970..22068, 21982..22125, 22024..22068, 22066..22146, 22067..22171, 22238..22270		

Seq. No.	56149	Seq. ID	OJ000323_11.0419.C10
Gene No.	117533	Strand	-
Start	23479	End	23697

Name	OJ000323_11.0419.C10.o6.gs	Method	GENSCAN
Start	23479	End	23697
GI	none	Score	.95
Exons	23479..23499, 23584..23697		
Seq. No.	56150	Seq. ID	OJ000323_11.0419.C12
Gene No.	117534	Strand	-
Start	1814	End	4887
Name	OJ000323_11.0419.C12.o2.gs	Method	GENSCAN
Start	1814	End	4887
GI	none	Score	.54
Exons	1814..2373, 3231..3318, 4879..4887		
Seq. No.	56151	Seq. ID	OJ000323_11.0419.C13
Gene No.	117535	Strand	+
Start	2337	End	5163
Name	OJ000323_11.0419.C13.o1.gp	Method	AAT/GAP
Start	2337	End	3610
GI	53812_1.R1084	Score	952
Exons	2337..2545, 2664..2781, 3228..3316, 3412..3458, 3550..3610		
GI Descrip.	'3935137 5.0e-41 (AC005106) T25N20.1 [Arabidopsis thaliana]'		
Seq. No.	56151	Seq. ID	OJ000323_11.0419.C13
Gene No.	117535	Strand	+
Start	2337	End	5163
Name	OJ000323_11.0419.C13.o1.np	Method	AAT/NAP
Start	2438	End	5101
GI	3935137	Score	601
Exons	2438..2545, 2664..2781, 3228..3316, 3412..3458, 3550..3638, 3677..3760, 4157..4272, 4417..5101		
GI Descrip.	(AC005106) T25N20.1 [Arabidopsis thaliana]		
Seq. No.	56151	Seq. ID	OJ000323_11.0419.C13
Gene No.	117535	Strand	+
Start	2337	End	5163
Name	OJ000323_11.0419.C13.o1.gs	Method	GENSCAN
Start	2459	End	5163
GI	none	Score	.82
Exons	2459..2545, 2664..2781, 3228..3316, 3412..3458, 3550..3638, 4197..4330, 4417..5163		
Seq. No.	56151	Seq. ID	OJ000323_11.0419.C13
Gene No.	117536	Strand	-
Start	4627	End	5380
Name	OJ000323_11.0419.C13.o3.tm	Method	TBLASTX:Maize
Start	2428	End	3319
GI	none	Score	126
Exons	2428..2544, 2429..2551, 2658..2735, 2660..2737, 2712..2780, 2738..2779, 3224..3271, 3272..3319		
Seq. No.	56151	Seq. ID	OJ000323_11.0419.C13
Gene No.	117536	Strand	-
Start	4627	End	5380
Name	OJ000323_11.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	3424	End	4614
GI	none	Score	45
Exons	3424..3459, 3552..3602, 3553..3639, 3554..3640, 4175..4330,		

4193..4249, 4204..4368, 4413..4550, 4414..4551, 4558..4614,
4578..4613

Seq. No.	56151	Seq. ID	OJ000323_11.0419.C13
Gene No.	117536	Strand	-
Start	4627	End	5380
Name	OJ000323_11.0419.C13.o2.gp	Method	AAT/GAP
Start	4627	End	5024
GI	uC-osroM202035d07a1	Score	776
Exons	4627..5024		
GI Descrip.	'2388560 5.0e-11 (AC000098) YUP8H12.1 [Arabidopsis thaliana]'		

Seq. No.	56151	Seq. ID	OJ000323_11.0419.C13
Gene No.	117536	Strand	-
Start	4627	End	5380
Name	OJ000323_11.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	4831	End	5380
GI	none	Score	126
Exons	4831..4932, 4857..4928, 4918..5064, 4960..5058, 5004..5060, 5074..5115, 5076..5114, 5227..5286, 5240..5281, 5303..5380, 5348..5374		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117537	Strand	-
Start	55	End	4451
Name	OJ000323_11.0419.C14.o1.gs	Method	GENSCAN
Start	55	End	4360
GI	none	Score	.63
Exons	55..253, 604..758, 1498..1551, 2948..3043, 4025..4126, 4255..4360		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117537	Strand	-
Start	55	End	4451
Name	OJ000323_11.0419.C14.o1.gp	Method	AAT/GAP
Start	983	End	4451
GI	2655_1.R1084	Score	1422
Exons	983..1316, 1498..1551, 2635..2710, 2803..2834, 2948..3043, 4025..4126, 4255..4451		
GI Descrip.	'3334333/sp O49044 SOD2_MESCR 1.0e-57 SUPEROXIDE DISMUTASE-2 [CU-ZN] >gi_2660798 (AF034832) cytosolic copper/zinc superoxide dismutase [Mesembryanthemum crystallinum]'		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117537	Strand	-
Start	55	End	4451
Name	OJ000323_11.0419.C14.o1.np	Method	AAT/NAP
Start	1291	End	4348
GI	3334333	Score	397
Exons	1291..1316, 1498..1551, 2635..2699, 2792..2834, 2948..3043, 4025..4126, 4255..4348		
GI Descrip.	SUPEROXIDE DISMUTASE [CU-ZN] 2 gi 2660798 (AF034832) cytosolic copper/zinc superoxide dismutase [Mesembryanthemum crystallinum]		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117538	Strand	-
Start	4820	End	6051

Name	OJ000323_11.0419.C14.o2.tc	Method	TBLASTX:Cress
Start	1494	End	4131
GI	none	Score	71
Exons	1494..1553, 1496..1555, 2627..2710, 2628..2711, 2791..2835, 2795..2836, 2946..3044, 2959..3045, 4023..4127, 4024..4131		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117538	Strand	-
Start	4820	End	6051
Name	OJ000323_11.0419.C14.o3.tw	Method	TBLASTX:Wheat
Start	1494	End	4128
GI	none	Score	65
Exons	1494..1574, 1496..1555, 2627..2710, 2628..2714, 2791..2835, 2946..3044, 2947..3045, 4023..4127, 4024..4128		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117538	Strand	-
Start	4820	End	6051
Name	OJ000323_11.0419.C14.o2.ts	Method	TBLASTX:Soybean
Start	1494	End	4128
GI	none	Score	81
Exons	1494..1553, 1496..1552, 2626..2712, 2627..2713, 2791..2835, 2798..2836, 2946..3044, 2947..3045, 4023..4043, 4042..4128, 4044..4127		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117538	Strand	-
Start	4820	End	6051
Name	OJ000323_11.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	2627	End	4282
GI	none	Score	99
Exons	2627..2713, 2627..2716, 2791..2835, 2935..3045, 2946..3044, 2947..3045, 4023..4124, 4024..4125, 4071..4127, 4256..4282		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117538	Strand	-
Start	4820	End	6051
Name	OJ000323_11.0419.C14.o2.gp	Method	AAT/GAP
Start	4820	End	5635
GI	331_4.R1084	Score	1408
Exons	4820..5326, 5419..5635		
GI Descrip.	'6094430/sp 022348 TBA2 ELEIN 3.0e-86 TUBULIN ALPHA-2 CHAIN (ALPHA-TUBULIN 2) >gi_2511533 (AF008121) alpha-tubulin 2 [Eleusine indica]'		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117538	Strand	-
Start	4820	End	6051
Name	OJ000323_11.0419.C14.o2.gs	Method	GENSCAN
Start	5014	End	6051
GI	none	Score	.98
Exons	5014..5326, 5419..5927, 6022..6051		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117538	Strand	-
Start	4820	End	6051
Name	OJ000323_11.0419.C14.o2.np	Method	AAT/NAP

Start	5023	End	5930
GI	6094430	Score	1316
Exons	5023..5326, 5419..5930		
GI Descrip.	TUBULIN ALPHA-2 CHAIN (ALPHA-TUBULIN 2) gi 2511533 (AF008121) alpha-tubulin 2 [Eleusine indica]		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117538	Strand	-
Start	4820	End	6051
Name	OJ000323_11.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	5074	End	5930
GI	none	Score	95
Exons	5074..5349, 5080..5202, 5117..5326, 5416..5793, 5418..5930, 5649..5804, 5851..5925		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117538	Strand	-
Start	4820	End	6051
Name	OJ000323_11.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	5074	End	5931
GI	none	Score	83
Exons	5074..5349, 5089..5193, 5117..5326, 5416..5793, 5418..5930, 5649..5819, 5851..5931		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117538	Strand	-
Start	4820	End	6051
Name	OJ000323_11.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	5074	End	5930
GI	none	Score	82
Exons	5074..5325, 5089..5193, 5117..5326, 5416..5484, 5418..5483, 5466..5525, 5467..5523, 5523..5714, 5527..5700, 5712..5930, 5715..5819, 5851..5925		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117538	Strand	-
Start	4820	End	6051
Name	OJ000323_11.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	5074	End	5729
GI	none	Score	266
Exons	5074..5325, 5117..5326, 5416..5727, 5418..5726, 5649..5729		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117538	Strand	-
Start	4820	End	6051
Name	OJ000323_11.0419.C14.o2.tw	Method	TBLASTX:Wheat
Start	5730	End	5930
GI	none	Score	65
Exons	5730..5930, 5734..5793, 5741..5803, 5857..5925		

Seq. No.	56152	Seq. ID	OJ000323_11.0419.C14
Gene No.	117538	Strand	-
Start	4820	End	6051
Name	OJ000323_11.0419.C14.o3.gp	Method	AAT/GAP
Start	5742	End	5930
GI	634_1.R1084	Score	342
Exons	5742..5930		

GI Descrip. '6094430/sp|O22348|TBA2_ELEIN 1.0e-115 TUBULIN ALPHA-2 CHAIN (ALPHA-TUBULIN 2) >gi_2511533 (AF008121) alpha-tubulin 2 [Eleusine indica]'

Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117539	Strand	+
Start	4614	End	6695
Name	OJ000323_11.0419.C15.o3.np	Method	AAT/NAP
Start	4614	End	6695
GI	7486788	Score	283
Exons	4614..4661, 6396..6695		
GI Descrip.	hypothetical protein M3E9.70 - Arabidopsis thaliana gi 2982456 emb CAA18220.1 (AL022223) putative protein [Arabidopsis thaliana] gi 7269502 emb CAB79505.1 (AL161565) putative protein [Arabidopsis thaliana]		

Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117540	Strand	+
Start	8644	End	9019
Name	OJ000323_11.0419.C15.o3.gp	Method	AAT/GAP
Start	8644	End	9019
GI	38495_1.R1084	Score	647
Exons	8644..9019		
GI Descrip.	'4836910/gb AAD30612.1 AC007153_4 4.0e-28 (AC007153) 51396 [Arabidopsis thaliana]'		

Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117541	Strand	-
Start	1	End	5291
Name	OJ000323_11.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	2031
GI	6094430	Score	812
Exons	1..88, 612..824, 1268..1482, 1919..2031		
GI Descrip.	TUBULIN ALPHA-2 CHAIN (ALPHA-TUBULIN 2) gi 2511533 (AF008121) alpha-tubulin 2 [Eleusine indica]		

Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117541	Strand	-
Start	1	End	5291
Name	OJ000323_11.0419.C15.o2.gs	Method	GENSCAN
Start	602	End	5291
GI	none	Score	.49
Exons	602..624, 669..824, 1268..1537, 2528..2744, 3101..3236, 3373..4369, 4439..5291		

Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117541	Strand	-
Start	1	End	5291
Name	OJ000323_11.0419.C15.o1.gp	Method	AAT/GAP
Start	625	End	2100
GI	634_1.R1084	Score	1132
Exons	625..824, 1268..1482, 1919..2100		
GI Descrip.	'6094430/sp O22348 TBA2_ELEIN 1.0e-115 TUBULIN ALPHA-2 CHAIN (ALPHA-TUBULIN 2) >gi_2511533 (AF008121) alpha-tubulin 2 [Eleusine indica]'		

Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
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Gene No.	117541	Strand	-
Start	1	End	5291
Name	OJ000323_11.0419.C15.o2.np	Method	AAT/NAP
Start	3354	End	5291
GI	4836910	Score	1554
Exons	3354..3724, 3764..4333, 4439..5156, 5202..5291		
GI Descrip.	(AC007153) 51396 [Arabidopsis thaliana]		

Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117541	Strand	-
Start	1	End	5291
Name	OJ000323_11.0419.C15.o2.gp	Method	AAT/GAP
Start	3482	End	3874
GI	2427512	Score	709
Exons	3482..3874		
GI Descrip.	4836910/gb AAD30612.1 AC007153_4 4.0e-28 (AC007153) 51396 [Arabidopsis thaliana]		

Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o2.tc	Method	TBLASTX:Cress
Start	622	End	2031
GI	none	Score	88
Exons	622..825, 623..697, 634..825, 1255..1485, 1269..1484, 1916..2014, 1919..2029, 1921..2031		

Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o5.tm	Method	TBLASTX:Maize
Start	622	End	2176
GI	none	Score	143
Exons	622..825, 622..825, 624..827, 1255..1485, 1269..1484, 1900..2043, 1910..2014, 1921..2043, 2087..2176		

Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o2.tw	Method	TBLASTX:Wheat
Start	634	End	2031
GI	none	Score	89
Exons	634..666, 649..825, 661..825, 1255..1482, 1269..1481, 1921..2031, 1922..2014		

Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o3.ts	Method	TBLASTX:Soybean
Start	748	End	2031
GI	none	Score	230
Exons	748..822, 752..823, 1269..1484, 1270..1485, 1900..2031, 1910..2008		

Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540

Name	OJ000323_11.0419.C15.o4.ts	Method	TBLASTX:Soybean
Start	3384	End	3635
GI	none	Score	91
Exons	3384..3635, 3385..3528		
Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	3820	End	4287
GI	none	Score	512
Exons	3820..4287, 3822..4286		
Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o4.tm	Method	TBLASTX:Maize
Start	4311	End	4713
GI	none	Score	40
Exons	4311..4334, 4312..4335, 4437..4712, 4438..4713		
Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o6.ts	Method	TBLASTX:Soybean
Start	4575	End	4853
GI	none	Score	120
Exons	4575..4754, 4576..4755, 4797..4853, 4798..4848		
Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o6.tm	Method	TBLASTX:Maize
Start	4974	End	5163
GI	none	Score	211
Exons	4974..5162, 4981..5163		
Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o3.tm	Method	TBLASTX:Maize
Start	6386	End	6709
GI	none	Score	321
Exons	6386..6589, 6387..6596, 6391..6600, 6392..6598, 6564..6707, 6564..6674, 6587..6709, 6587..6700		
Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o2.ts	Method	TBLASTX:Soybean
Start	6398	End	6695
GI	none	Score	175
Exons	6398..6538, 6399..6548, 6539..6691, 6546..6695		
Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540

Name	OJ000323_11.0419.C15.o4.tc	Method	TBLASTX:Cress
Start	6414	End	6701
GI	none	Score	123
Exons	6414..6548, 6419..6547, 6543..6701, 6545..6694		
Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	8754	End	10526
GI	none	Score	1174
Exons	8754..9776, 8781..9782, 8794..9777, 9425..9805, 9775..10224, 9780..10223, 9785..10234, 10220..10345, 10221..10364, 10222..10350, 10353..10523, 10357..10524, 10362..10526		
Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o3.gs	Method	GENSCAN
Start	8802	End	12540
GI	none	Score	.48
Exons	8802..10241, 10575..10613, 10925..11006, 12530..12540		
Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	8814	End	9338
GI	none	Score	333
Exons	8814..9338, 8992..9324		
Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o4.np	Method	AAT/NAP
Start	8823	End	10139
GI	7446096	Score	411
Exons	8823..9330, 9427..9521, 9573..9895, 9929..10139		
GI Descrip.	RNA helicase homolog yfmL - Bacillus subtilis gi 2443255 dbj BAA22326.1 (D86417) YfmL [Bacillus subtilis] gi 2633067 emb CAB12572.1 (Z99108) similar to RNA helicase [Bacillus subtilis]		
Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o3.tw	Method	TBLASTX:Wheat
Start	8859	End	9290
GI	none	Score	235
Exons	8859..9290		
Seq. No.	56153	Seq. ID	OJ000323_11.0419.C15
Gene No.	117542	Strand	-
Start	8802	End	12540
Name	OJ000323_11.0419.C15.o5.ts	Method	TBLASTX:Soybean
Start	8859	End	9410
GI	none	Score	240

Exons 8859..9410

Seq. No. 56153
Gene No. 117542
Start 8802
Name OJ000323_11.0419.C15.o4.gp
Start 9203
GI none
Exons 9203..9673

Seq. ID OJ000323_11.0419.C15
Strand -
End 12540
Method AAT/GAP
End 9673
Score 858

Seq. No. 56153
Gene No. 117542
Start 8802
Name OJ000323_11.0419.C15.o1.tw
Start 9295
GI none
Exons 9295..9564, 9295..9342, 9297..9578, 9558..9716, 9558..9722, 9560..9718, 9673..9723

Seq. ID OJ000323_11.0419.C15
Strand -
End 12540
Method TBLASTX:Wheat
End 9723
Score 274

Seq. No. 56153
Gene No. 117542
Start 8802
Name OJ000323_11.0419.C15.o1.ts
Start 9567
GI none
Exons 9567..9905, 9568..9900

Seq. ID OJ000323_11.0419.C15
Strand -
End 12540
Method TBLASTX:Soybean
End 9905
Score 269

Seq. No. 56153
Gene No. 117542
Start 8802
Name OJ000323_11.0419.C15.o3.tc
Start 9828
GI none
Exons 9828..9935, 9829..9927, 9888..10211, 9937..10218

Seq. ID OJ000323_11.0419.C15
Strand -
End 12540
Method TBLASTX:Cress
End 10218
Score 73

Seq. No. 56153
Gene No. 117542
Start 8802
Name OJ000323_11.0419.C15.o5.gp
Start 10159
GI 426660
Exons 10159..10518

Seq. ID OJ000323_11.0419.C15
Strand -
End 12540
Method AAT/GAP
End 10518
Score 686

Seq. No. 56154
Gene No. 117543
Start 1111
Name OJ000323_11.0419.C16.o1.tm
Start 1050
GI none
Exons 1050..1211, 1094..1210, 1098..1211, 1136..1216, 1144..1212, 1313..1378, 1314..1382, 1464..1517, 1468..1524, 1475..1540, 1481..1531

Seq. ID OJ000323_11.0419.C16
Strand +
End 2058
Method TBLASTX:Maize
End 1540
Score 150

Seq. No. 56154
Gene No. 117543
Start 1111
Name OJ000323_11.0419.C16.o1.gs

Seq. ID OJ000323_11.0419.C16
Strand +
End 2058
Method GENSCAN

Start 1111
 GI none
 Exons 1111..1212, 1579..1624

End 1624
 Score .52

Seq. No. 56154
 Gene No. 117543
 Start 1111
 Name OJ000323_11.0419.C16.ol.gp
 Start 1324
 GI none
 Exons 1324..1382, 1468..1533, 1603..1722, 2024..2058

Seq. ID OJ000323_11.0419.C16
 Strand +
 End 2058
 Method AAT/GAP
 End 2058
 Score 410
 1722, 2024..2058

Seq. No. 56155
 Gene No. 117544
 Start 667
 Name OJ000323_11.0419.C17.ol.np
 Start 667
 GI 400986
 Exons 667..885
 GI Descrip. 50S RIBOSOMAL PROTEIN L15, CHLOROPLAST PRECURSOR (CL15)

Seq. ID OJ000323_11.0419.C17
 Strand +
 End 885
 Method AAT/NAP
 End 885
 Score 195

gi|81947|pir||S18001 ribosomal protein L15 precursor,
 chloroplast - garden pea (fragment) gi|20867|emb|CAA77595|
 (Z11510) Plastid ribosomal protein CL15 [Pisum sativum]

Seq. No. 56155
 Gene No. 117545
 Start 704
 Name OJ000323_11.0419.C17.ol.tc
 Start 645
 GI none
 Exons 645..866, 652..870

Seq. ID OJ000323_11.0419.C17
 Strand -
 End 1005
 Method TBLASTX:Cress
 End 870
 Score 223

Seq. No. 56155
 Gene No. 117545
 Start 704
 Name OJ000323_11.0419.C17.ol.tm
 Start 645
 GI none
 Exons 645..920, 651..908, 652..912, 665..934

Seq. ID OJ000323_11.0419.C17
 Strand -
 End 1005
 Method TBLASTX:Maize
 End 934
 Score 248

Seq. No. 56155
 Gene No. 117545
 Start 704
 Name OJ000323_11.0419.C17.ol.ts
 Start 660
 GI none
 Exons 660..848, 667..861

Seq. ID OJ000323_11.0419.C17
 Strand -
 End 1005
 Method TBLASTX:Soybean
 End 861
 Score 202

Seq. No. 56155
 Gene No. 117545
 Start 704
 Name OJ000323_11.0419.C17.ol.gs
 Start 704
 GI none
 Exons 704..836, 950..1005

Seq. ID OJ000323_11.0419.C17
 Strand -
 End 1005
 Method GENSCAN
 End 1005
 Score .69

Seq. No. 56156
 Seq. ID OJ000323_11.0419.C18

Gene No.	117546	Strand	+
Start	349	End	1810
Name	OJ000323_11.0419.C18.o1.gs	Method	GENSCAN
Start	349	End	1810
GI	none	Score	.5
Exons	349..536, 744..789, 1433..1527, 1556..1810		

Seq. No.	56156	Seq. ID	OJ000323_11.0419.C18
Gene No.	117547	Strand	+
Start	3625	End	17005
Name	OJ000323_11.0419.C18.o1.np	Method	AAT/NAP
Start	3625	End	17005
GI	6539570	Score	182
Exons	3625..3731, 3865..3959, 4110..4176, 14662..14705, 15023..15089, 15297..15496, 15624..15732, 16741..17005		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	56156	Seq. ID	OJ000323_11.0419.C18
Gene No.	117548	Strand	-
Start	11473	End	15862
Name	OJ000323_11.0419.C18.o3.gs	Method	GENSCAN
Start	11473	End	15862
GI	none	Score	.65
Exons	11473..11642, 12956..13011, 13473..13605, 14844..14987, 15249..15559, 15645..15862		

Seq. No.	56156	Seq. ID	OJ000323_11.0419.C18
Gene No.	117549	Strand	-
Start	16288	End	16585
Name	OJ000323_11.0419.C18.o4.gs	Method	GENSCAN
Start	16288	End	16585
GI	none	Score	.6
Exons	16288..16435, 16461..16585		

Seq. No.	56157	Seq. ID	OJ000323_11.0419.C21
Gene No.	117550	Strand	+
Start	71	End	933
Name	OJ000323_11.0419.C21.o1.gs	Method	GENSCAN
Start	71	End	933
GI	none	Score	.54
Exons	71..702, 910..933		

Seq. No.	56157	Seq. ID	OJ000323_11.0419.C21
Gene No.	117550	Strand	+
Start	71	End	933
Name	OJ000323_11.0419.C21.o1.gp	Method	AAT/GAP
Start	97	End	392
GI	3107476	Score	501
Exons	97..392		

Seq. No.	56157	Seq. ID	OJ000323_11.0419.C21
Gene No.	117551	Strand	+
Start	1395	End	1620
Name	OJ000323_11.0419.C21.o2.gp	Method	AAT/GAP
Start	1329	End	1620
GI	24962_1.R1084	Score	560
Exons	1329..1620		

GI Descrip. '400986/sp|P31165|RK15_PEA 2.0e-18 50S RIBOSOMAL PROTEIN L15, CHLOROPLAST PRECURSOR (CL15) >gi_81947_pir_S18001 ribosomal protein L15 precursor, chloroplast - garden pea (fragment) >gi_20867_emb_CAA77595_ (Z11510) Plastid ribosomal protein CL15 [Pisum sativum]'

Seq. No.	56157	Seq. ID	OJ000323_11.0419.C21
Gene No.	117551	Strand	+
Start	1395	End	1620
Name	OJ000323_11.0419.C21.o2.gs	Method	GENSCAN
Start	1395	End	1510
GI	none	Score	.78
Exons	1395..1510		

Seq. No.	56158	Seq. ID	OJ000323_11.0419.C25
Gene No.	117552	Strand	+
Start	84	End	609
Name	OJ000323_11.0419.C25.o1.gs	Method	GENSCAN
Start	84	End	609
GI	none	Score	.63
Exons	84..212, 508..609		

Seq. No.	56158	Seq. ID	OJ000323_11.0419.C25
Gene No.	117553	Strand	+
Start	1946	End	2953
Name	OJ000323_11.0419.C25.o1.gp	Method	AAT/GAP
Start	1946	End	2953
GI	3869_1.R1084	Score	1912
Exons	1946..2953		
GI Descrip.	'5001734/gb AAD37122.1 AF129511_1 1.0e-108 (AF129511) very-long-chain fatty acid condensing enzyme CUT1 [Arabidopsis thaliana]'		

Seq. No.	56158	Seq. ID	OJ000323_11.0419.C25
Gene No.	117554	Strand	-
Start	2216	End	7743
Name	OJ000323_11.0419.C25.o2.gs	Method	GENSCAN
Start	2216	End	7743
GI	none	Score	.82
Exons	2216..2989, 3083..4057, 4797..4846, 5897..6052, 7653..7743		

Seq. No.	56158	Seq. ID	OJ000323_11.0419.C25
Gene No.	117554	Strand	-
Start	2216	End	7743
Name	OJ000323_11.0419.C25.o1.np	Method	AAT/NAP
Start	2219	End	3793
GI	5001734	Score	2062
Exons	2219..2989, 3083..3793		
GI Descrip.	(AF129511) very-long-chain fatty acid condensing enzyme CUT1 [Arabidopsis thaliana] gi 6553942 gb AAF16606.1 AC011915_9 (AC011915) very-long-chain fatty acid condensing enzyme (CUT1) [Arabidopsis thaliana]		

Seq. No.	56158	Seq. ID	OJ000323_11.0419.C25
Gene No.	117554	Strand	-
Start	2216	End	7743
Name	OJ000323_11.0419.C25.o1.tc	Method	TBLASTX:Cress

Start	2219	End	3767
GI	none	Score	36
Exons	2219..2293, 2244..2276, 2285..2584, 2286..2582, 2496..2594, 2601..2720, 2606..2992, 2802..2984, 3083..3340, 3087..3140, 3195..3326, 3371..3442, 3372..3446, 3455..3577, 3465..3578, 3686..3766, 3690..3767		

Seq. No.	56158	Seq. ID	OJ000323_11.0419.C25
Gene No.	117554	Strand	-
Start	2216	End	7743
Name	OJ000323_11.0419.C25.o1.tw	Method	TBLASTX:Wheat
Start	2234	End	2453
GI	none	Score	197
Exons	2234..2284, 2276..2452, 2277..2453		

Seq. No.	56158	Seq. ID	OJ000323_11.0419.C25
Gene No.	117554	Strand	-
Start	2216	End	7743
Name	OJ000323_11.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	2237	End	3767
GI	none	Score	239
Exons	2237..2584, 2259..2585, 2588..2992, 2613..2720, 2793..2984, 3077..3340, 3084..3140, 3195..3326, 3381..3449, 3455..3601, 3465..3599, 3686..3766, 3690..3767		

Seq. No.	56158	Seq. ID	OJ000323_11.0419.C25
Gene No.	117554	Strand	-
Start	2216	End	7743
Name	OJ000323_11.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	2246	End	3767
GI	none	Score	287
Exons	2246..2581, 2262..2582, 2588..2971, 2625..2699, 2793..2972, 3065..3340, 3084..3140, 3195..3338, 3372..3449, 3455..3601, 3456..3554, 3559..3585, 3681..3767, 3686..3766		

Seq. No.	56158	Seq. ID	OJ000323_11.0419.C25
Gene No.	117554	Strand	-
Start	2216	End	7743
Name	OJ000323_11.0419.C25.o2.tw	Method	TBLASTX:Wheat
Start	3252	End	3457
GI	none	Score	145
Exons	3252..3449, 3252..3404, 3254..3457		

Seq. No.	56158	Seq. ID	OJ000323_11.0419.C25
Gene No.	117554	Strand	-
Start	2216	End	7743
Name	OJ000323_11.0419.C25.o2.gp	Method	AAT/GAP
Start	3450	End	3961
GI	58768_1.R1084	Score	952
Exons	3450..3961		
GI Descrip.	'5001734/gb AAD37122.1 AF129511_1 8.0e-33 (AF129511) very-long-chain fatty acid condensing enzyme CUT1 [Arabidopsis thaliana]'		

Seq. No.	56159	Seq. ID	OJ000323_12.0419.C3
Gene No.	117555	Strand	-
Start	254	End	1456

Name	OJ000323_12.0419.C3.o1.gs	Method	GENSCAN
Start	254	End	1456
GI	none	Score	.64
Exons	254..346, 443..734, 776..794, 1411..1456		

Seq. No.	56160	Seq. ID	OJ000323_12.0419.C4
Gene No.	117556	Strand	+
Start	2636	End	2765
Name	OJ000323_12.0419.C4.o1.gs	Method	GENSCAN
Start	2636	End	2765
GI	none	Score	.56
Exons	2636..2765		

Seq. No.	56160	Seq. ID	OJ000323_12.0419.C4
Gene No.	117557	Strand	-
Start	2663	End	2860
Name	OJ000323_12.0419.C4.o1.np	Method	AAT/NAP
Start	2663	End	2860
GI	3894191	Score	154
Exons	2663..2860		
GI Descrip.	(AC005662) unknown protein [Arabidopsis thaliana]		

Seq. No.	56161	Seq. ID	OJ000323_12.0419.C5
Gene No.	117558	Strand	+
Start	2147	End	2491
Name	OJ000323_12.0419.C5.o2.gs	Method	GENSCAN
Start	2147	End	2491
GI	none	Score	.74
Exons	2147..2491		

Seq. No.	56161	Seq. ID	OJ000323_12.0419.C5
Gene No.	117559	Strand	+
Start	2921	End	9534
Name	OJ000323_12.0419.C5.o3.gs	Method	GENSCAN
Start	2921	End	5736
GI	none	Score	.92
Exons	2921..2968, 3379..3515, 3531..4183, 4337..5736		

Seq. No.	56161	Seq. ID	OJ000323_12.0419.C5
Gene No.	117559	Strand	+
Start	2921	End	9534
Name	OJ000323_12.0419.C5.o1.np	Method	AAT/NAP
Start	3466	End	9534
GI	5922631	Score	6609
Exons	3466..3590, 3849..4093, 4352..4551, 4597..5178, 5221..5371, 5498..6401, 7008..9534		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi 6016864 dbj BAA85207.1 (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ		

Seq. No.	56161	Seq. ID	OJ000323_12.0419.C5
Gene No.	117559	Strand	+
Start	2921	End	9534

Name OJ000323_12.0419.C5.o4.gs
Start 5892
GI none
Exons 5892..6383

Method GENSCAN
End 6383
Score 1

Seq. No. 56161
Gene No. 117559
Start 2921
Name OJ000323_12.0419.C5.o5.gs
Start 6677
GI none
Exons 6677..7480

Seq. ID OJ000323_12.0419.C5
Strand +
End 9534
Method GENSCAN
End 7480
Score .89

Seq. No. 56161
Gene No. 117560
Start 21
Name OJ000323_12.0419.C5.o1.gs
Start 21
GI none
Exons 21..430

Seq. ID OJ000323_12.0419.C5
Strand -
End 430
Method GENSCAN
End 430
Score .92

Seq. No. 56161
Gene No. 117561
Start 4782
Name OJ000323_12.0419.C5.o7.tw
Start 4782
GI none
Exons 4782..4844, 4783..5184

Seq. ID OJ000323_12.0419.C5
Strand
End 5184
Method TBLASTX:Wheat
End 5184
Score 287

Seq. No. 56161
Gene No. 117562
Start 5826
Name OJ000323_12.0419.C5.o6.tw
Start 5826
GI none
Exons 5826..6167, 5918..6160

Seq. ID OJ000323_12.0419.C5
Strand
End 6167
Method TBLASTX:Wheat
End 6167
Score 319

Seq. No. 56161
Gene No. 117563
Start 6418
Name OJ000323_12.0419.C5.o1.tw
Start 6418
GI none
Exons 6418..6873, 6419..6874

Seq. ID OJ000323_12.0419.C5
Strand
End 6904
Method TBLASTX:Wheat
End 6874
Score 457

Seq. No. 56161
Gene No. 117563
Start 6418
Name OJ000323_12.0419.C5.o3.tm
Start 6548
GI none
Exons 6548..6904, 6589..6780

Seq. ID OJ000323_12.0419.C5
Strand
End 6904
Method TBLASTX:Maize
End 6904
Score 331

Seq. No. 56161
Gene No. 117564
Start 6989
Name OJ000323_12.0419.C5.o2.tw

Seq. ID OJ000323_12.0419.C5
Strand
End 7555
Method TBLASTX:Wheat

Start 6989
GI none
Exons 6989..7408, 7033..7413

End 7413
Score 427

Seq. No. 56161
Gene No. 117564
Start 6989
Name OJ000323_12.0419.C5.o1.ts
Start 7037
GI none
Exons 7037..7468, 7079..7228, 7084..7434

Seq. ID OJ000323_12.0419.C5
Strand
End 7555
Method TBLASTX:Soybean
End 7468
Score 287

Seq. No. 56161
Gene No. 117564
Start 6989
Name OJ000323_12.0419.C5.o2.tm
Start 7135
GI none
Exons 7135..7395, 7136..7396, 7412..7555

Seq. ID OJ000323_12.0419.C5
Strand
End 7555
Method TBLASTX:Maize
End 7555
Score 287

Seq. No. 56161
Gene No. 117565
Start 7576
Name OJ000323_12.0419.C5.o4.tw
Start 7576
GI none
Exons 7576..7821, 7577..7807, 7837..7983, 7838..7984

Seq. ID OJ000323_12.0419.C5
Strand
End 8082
Method TBLASTX:Wheat
End 7984
Score 254

Seq. No. 56161
Gene No. 117565
Start 7576
Name OJ000323_12.0419.C5.o2.ts
Start 7694
GI none
Exons 7694..7798, 7702..7797, 7834..8082, 7838..8080

Seq. ID OJ000323_12.0419.C5
Strand
End 8082
Method TBLASTX:Soybean
End 8082
Score 88

Seq. No. 56161
Gene No. 117565
Start 7576
Name OJ000323_12.0419.C5.o5.tm
Start 7757
GI none
Exons 7757..7927, 7757..7861, 7837..7926, 7931..8026, 7948..8019

Seq. ID OJ000323_12.0419.C5
Strand
End 8082
Method TBLASTX:Maize
End 8026
Score 120

Seq. No. 56161
Gene No. 117566
Start 7985
Name OJ000323_12.0419.C5.o8.tw
Start 7985
GI none
Exons 7985..8275, 7993..8124, 8033..8269

Seq. ID OJ000323_12.0419.C5
Strand
End 8275
Method TBLASTX:Wheat
End 8275
Score 262

Seq. No. 56161
Gene No. 117567
Start 8437
Name OJ000323_12.0419.C5.o1.tm
Start 8437

Seq. ID OJ000323_12.0419.C5
Strand
End 8829
Method TBLASTX:Maize
End 8799

GI	none	Score	331
Exons	8437..8703, 8438..8707, 8701..8745, 8752..8799		
Seq. No.	56161	Seq. ID	OJ000323_12.0419.C5
Gene No.	117567	Strand	
Start	8437	End	8829
Name	OJ000323_12.0419.C5.o5.tw	Method	TBLASTX:Wheat
Start	8444	End	8829
GI	none	Score	254
Exons	8444..8707, 8467..8661, 8700..8753, 8701..8829, 8701..8829		

Seq. No.	56161	Seq. ID	OJ000323_12.0419.C5
Gene No.	117568	Strand	
Start	8944	End	9540
Name	OJ000323_12.0419.C5.o3.tw	Method	TBLASTX:Wheat
Start	8944	End	9540
GI	none	Score	342
Exons	8944..9435, 8964..9032, 9099..9227, 9421..9540		

Seq. No.	56161	Seq. ID	OJ000323_12.0419.C5
Gene No.	117568	Strand	
Start	8944	End	9540
Name	OJ000323_12.0419.C5.o4.tm	Method	TBLASTX:Maize
Start	9265	End	9519
GI	none	Score	138
Exons	9265..9438, 9318..9437, 9417..9518, 9418..9519		

Seq. No.	56162	Seq. ID	OJ000323_12.0419.C6
Gene No.	117569	Strand	+
Start	7666	End	8255
Name	OJ000323_12.0419.C6.o2.np	Method	AAT/NAP
Start	7666	End	8255
GI	6907092	Score	492
Exons	7666..7952, 8008..8049, 8119..8255		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	56162	Seq. ID	OJ000323_12.0419.C6
Gene No.	117570	Strand	-
Start	1	End	4837
Name	OJ000323_12.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	2718
GI	6691716	Score	2338
Exons	1..238, 313..428, 578..678, 753..940, 1018..1199, 1276..1376, 1459..1653, 1843..2718		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	56162	Seq. ID	OJ000323_12.0419.C6
Gene No.	117570	Strand	-
Start	1	End	4837
Name	OJ000323_12.0419.C6.o1.gs	Method	GENSCAN
Start	23	End	4837
GI	none	Score	.84
Exons	23..238, 501..678, 753..940, 1018..1376, 1459..1628, 1834..2160, 2623..2731, 4782..4837		

Seq. No.	56162	Seq. ID	OJ000323_12.0419.C6
Gene No.	117571	Strand	-
Start	7575	End	8238
Name	OJ000323_12.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	2308	End	2625
GI	none	Score	203
Exons	2308..2625		

Seq. No.	56162	Seq. ID	OJ000323_12.0419.C6
Gene No.	117571	Strand	-
Start	7575	End	8238
Name	OJ000323_12.0419.C6.o3.gs	Method	GENSCAN
Start	7575	End	8238
GI	none	Score	.84
Exons	7575..7802, 7819..7884, 7895..8238		

Seq. No.	56163	Seq. ID	OJ000323_12.0419.C7
Gene No.	117572	Strand	+
Start	480	End	496
Name	OJ000323_12.0419.C7.o1.gs	Method	GENSCAN
Start	480	End	496
GI	none	Score	.48
Exons	480..496		

Seq. No.	56163	Seq. ID	OJ000323_12.0419.C7
Gene No.	117573	Strand	-
Start	1941	End	3231
Name	OJ000323_12.0419.C7.o1.gp	Method	AAT/GAP
Start	1394	End	1828
GI	2428185	Score	656
Exons	1394..1828		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	56163	Seq. ID	OJ000323_12.0419.C7
Gene No.	117573	Strand	-
Start	1941	End	3231
Name	OJ000323_12.0419.C7.o2.gs	Method	GENSCAN
Start	1941	End	3231
GI	none	Score	.43
Exons	1941..2057, 2390..2551, 2557..2809, 3173..3231		

Seq. No.	56163	Seq. ID	OJ000323_12.0419.C7
Gene No.	117573	Strand	-
Start	1941	End	3231
Name	OJ000323_12.0419.C7.o1.np	Method	AAT/NAP
Start	1963	End	2865
GI	5852178	Score	495
Exons	1963..2058, 2422..2525, 2557..2865		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	56164	Seq. ID	OJ000323_12.0419.C8
Gene No.	117574	Strand	+
Start	444	End	1598
Name	OJ000323_12.0419.C8.o1.np	Method	AAT/NAP
Start	444	End	1598
GI	4585884	Score	514

Exons 444..1190, 1289..1598
GI Descrip. (AC005850) Hypothetical protein [Arabidopsis thaliana]

Seq. No.	56164	Seq. ID	OJ000323_12.0419.C8
Gene No.	117574	Strand	+
Start	444	End	1598
Name	OJ000323_12.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	707	End	1153
GI	none	Score	94
Exons	707..886, 784..834, 889..984, 890..1153		

Seq. No.	56164	Seq. ID	OJ000323_12.0419.C8
Gene No.	117574	Strand	+
Start	444	End	1598
Name	OJ000323_12.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	824	End	1195
GI	none	Score	90
Exons	824..904, 908..1192, 946..1191, 950..1195		

Seq. No.	56164	Seq. ID	OJ000323_12.0419.C8
Gene No.	117574	Strand	+
Start	444	End	1598
Name	OJ000323_12.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	1263	End	1586
GI	none	Score	132
Exons	1263..1364, 1264..1377, 1264..1368, 1404..1586		

Seq. No.	56164	Seq. ID	OJ000323_12.0419.C8
Gene No.	117574	Strand	+
Start	444	End	1598
Name	OJ000323_12.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1318	End	1574
GI	none	Score	123
Exons	1318..1410, 1320..1418, 1404..1574, 1404..1574		

Seq. No.	56165	Seq. ID	OJ000323_12.0419.C9
Gene No.	117575	Strand	-
Start	526	End	4115
Name	OJ000323_12.0419.C9.o1.gs	Method	GENSCAN
Start	526	End	4115
GI	none	Score	.61
Exons	526..687, 2788..2929, 4012..4115		

Seq. No.	56165	Seq. ID	OJ000323_12.0419.C9
Gene No.	117575	Strand	-
Start	526	End	4115
Name	OJ000323_12.0419.C9.o3.tw	Method	TBLASTX:Wheat
Start	2098	End	2402
GI	none	Score	45
Exons	2098..2199, 2101..2238, 2227..2256, 2232..2402		

Seq. No.	56165	Seq. ID	OJ000323_12.0419.C9
Gene No.	117575	Strand	-
Start	526	End	4115
Name	OJ000323_12.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	2191	End	2659
GI	none	Score	87

Exons 2191..2238, 2232..2279, 2289..2429, 2429..2659, 2459..2653

Seq. No.	56165	Seq. ID	OJ000323_12.0419.C9
Gene No.	117575	Strand	-
Start	526	End	4115
Name	OJ000323_12.0419.C9.o2.tw	Method	TBLASTX:Wheat
Start	2558	End	3108
GI	none	Score	82
Exons	2558..2656, 2746..3108, 2843..3013		

Seq. No.	56165	Seq. ID	OJ000323_12.0419.C9
Gene No.	117575	Strand	-
Start	526	End	4115
Name	OJ000323_12.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	2689	End	3261
GI	none	Score	71
Exons	2689..2730, 2731..2916, 2905..3132, 2906..3016, 3202..3261		

Seq. No.	56165	Seq. ID	OJ000323_12.0419.C9
Gene No.	117575	Strand	-
Start	526	End	4115
Name	OJ000323_12.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	2863	End	3823
GI	none	Score	44
Exons	2863..3351, 2983..3078, 3074..3136, 3203..3349, 3351..3491, 3361..3468, 3467..3823, 3537..3809		

Seq. No.	56165	Seq. ID	OJ000323_12.0419.C9
Gene No.	117575	Strand	-
Start	526	End	4115
Name	OJ000323_12.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	3459	End	3776
GI	none	Score	162
Exons	3459..3491, 3494..3775, 3531..3776		

Seq. No.	56166	Seq. ID	OJ000323_12.0419.C13
Gene No.	117576	Strand	-
Start	1	End	984
Name	OJ000323_12.0419.C13.o1.gp	Method	AAT/GAP
Start	1	End	361
GI	LIB3432-032-P2-K1-E12	Score	678
Exons	1..361		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	56166	Seq. ID	OJ000323_12.0419.C13
Gene No.	117576	Strand	-
Start	1	End	984
Name	OJ000323_12.0419.C13.o1.gs	Method	GENSCAN
Start	7	End	875
GI	none	Score	.49
Exons	7..139, 298..875		

Seq. No.	56166	Seq. ID	OJ000323_12.0419.C13
Gene No.	117576	Strand	-
Start	1	End	984
Name	OJ000323_12.0419.C13.o1.ts	Method	TBLASTX:Soybean

Start	297	End	654
GI	none	Score	153
Exons	297..572, 298..654, 311..571, 318..653		

Seq. No.	56166	Seq. ID	OJ000323_12.0419.C13
Gene No.	117576	Strand	-
Start	1	End	984
Name	OJ000323_12.0419.C13.o1.np	Method	AAT/NAP
Start	374	End	984
GI	7445541	Score	522
Exons	374..984		
GI Descrip.	hypothetical protein T27E13.16 - Arabidopsis thaliana gi 3150410 gb AAC16962.1 (AC004165) putative leucine-rich repeat protein [Arabidopsis thaliana]		

Seq. No.	56166	Seq. ID	OJ000323_12.0419.C13
Gene No.	117576	Strand	-
Start	1	End	984
Name	OJ000323_12.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	378	End	729
GI	none	Score	135
Exons	378..410, 429..728, 447..728, 448..729		

Seq. No.	56166	Seq. ID	OJ000323_12.0419.C13
Gene No.	117576	Strand	-
Start	1	End	984
Name	OJ000323_12.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	403	End	863
GI	none	Score	616
Exons	403..852, 405..863, 408..863		

Seq. No.	56166	Seq. ID	OJ000323_12.0419.C13
Gene No.	117576	Strand	-
Start	1	End	984
Name	OJ000323_12.0419.C13.o2.ts	Method	TBLASTX:Soybean
Start	699	End	950
GI	none	Score	75
Exons	699..866, 699..950, 700..948		

Seq. No.	56167	Seq. ID	OJ000323_12.0419.C14
Gene No.	117577	Strand	-
Start	1	End	2121
Name	OJ000323_12.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	2121
GI	7445541	Score	366
Exons	1..32, 1649..2121		
GI Descrip.	hypothetical protein T27E13.16 - Arabidopsis thaliana gi 3150410 gb AAC16962.1 (AC004165) putative leucine-rich repeat protein [Arabidopsis thaliana]		

Seq. No.	56168	Seq. ID	OJ000323_12.0419.C15
Gene No.	117578	Strand	+
Start	823	End	923
Name	OJ000323_12.0419.C15.o1.gs	Method	GENSCAN
Start	823	End	923
GI	none	Score	.58
Exons	823..923		

Seq. No.	56168	Seq. ID	OJ000323_12.0419.C15
Gene No.	117579	Strand	-
Start	2303	End	3056
Name	OJ000323_12.0419.C15.o2.gs	Method	GENSCAN
Start	2303	End	3056
GI	none	Score	.56
Exons	2303..2397, 3041..3056		

Seq. No.	56169	Seq. ID	OJ000323_12.0419.C16
Gene No.	117580	Strand	+
Start	1	End	4348
Name	OJ000323_12.0419.C16.o2.np	Method	AAT/NAP
Start	1	End	4348
GI	7513472	Score	103
Exons	1..71, 2700..2816, 4055..4348		
GI Descrip.	actin-depolymerizing protein N-WASP, brain - bovine gi 1644232 dbj BAA11082.1 (D67066) N-WASP [Bos taurus]		

Seq. No.	56169	Seq. ID	OJ000323_12.0419.C16
Gene No.	117580	Strand	+
Start	1	End	4348
Name	OJ000323_12.0419.C16.o1.gs	Method	GENSCAN
Start	113	End	439
GI	none	Score	.9
Exons	113..439		

Seq. No.	56169	Seq. ID	OJ000323_12.0419.C16
Gene No.	117581	Strand	-
Start	1	End	3040
Name	OJ000323_12.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	2573
GI	5852180	Score	1113
Exons	1..31, 1745..2573		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	56169	Seq. ID	OJ000323_12.0419.C16
Gene No.	117581	Strand	-
Start	1	End	3040
Name	OJ000323_12.0419.C16.o2.gs	Method	GENSCAN
Start	1669	End	2981
GI	none	Score	.66
Exons	1669..1968, 2089..2198, 2339..2464, 2903..2981		

Seq. No.	56169	Seq. ID	OJ000323_12.0419.C16
Gene No.	117581	Strand	-
Start	1	End	3040
Name	OJ000323_12.0419.C16.o1.gp	Method	AAT/GAP
Start	2752	End	3040
GI	LIB3431-028-P1-K1-C3	Score	480
Exons	2752..3040		
GI Descrip.	'4176420/dbj BAA37167 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	56170	Seq. ID	OJ000323_12.0419.C19
Gene No.	117582	Strand	+
Start	391	End	1696

Name	OJ000323_12.0419.C19.o1.np	Method	AAT/NAP
Start	391	End	1696
GI	6815099	Score	81
Exons	391..413, 1555..1696		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	56170	Seq. ID	OJ000323_12.0419.C19
Gene No.	117582	Strand	+
Start	391	End	1696
Name	OJ000323_12.0419.C19.o1.gs	Method	GENSCAN
Start	554	End	1043
GI	none	Score	.64
Exons	554..578, 934..1043		

Seq. No.	56170	Seq. ID	OJ000323_12.0419.C19
Gene No.	117583	Strand	-
Start	1890	End	2534
Name	OJ000323_12.0419.C19.o2.gs	Method	GENSCAN
Start	1890	End	2534
GI	none	Score	.4
Exons	1890..1966, 2430..2534		

Seq. No.	56171	Seq. ID	OJ000323_12.0419.C20
Gene No.	117584	Strand	+
Start	495	End	1101
Name	OJ000323_12.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	488	End	740
GI	none	Score	68
Exons	488..691, 491..601, 492..740, 492..713		

Seq. No.	56171	Seq. ID	OJ000323_12.0419.C20
Gene No.	117584	Strand	+
Start	495	End	1101
Name	OJ000323_12.0419.C20.o1.gp	Method	AAT/GAP
Start	495	End	1101
GI	471.R1084	Score	1190
Exons	495..1101		
GI Descrip.	'3983663/dbj BAA34861 0.0e+00 (AB011270) importin-beta1 [Oryza sativa]'		

Seq. No.	56171	Seq. ID	OJ000323_12.0419.C20
Gene No.	117584	Strand	+
Start	495	End	1101
Name	OJ000323_12.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	500	End	923
GI	none	Score	471
Exons	500..682, 504..923, 507..758, 740..922		

Seq. No.	56171	Seq. ID	OJ000323_12.0419.C20
Gene No.	117584	Strand	+
Start	495	End	1101
Name	OJ000323_12.0419.C20.o1.gs	Method	GENSCAN
Start	507	End	1019
GI	none	Score	.52
Exons	507..1019		

Seq. No.	56171	Seq. ID	OJ000323_12.0419.C20
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Gene No.	117584	Strand	+
Start	495	End	1101
Name	OJ000323_12.0419.C20.o1.np	Method	AAT/NAP
Start	507	End	1101
GI	3983663	Score	955
Exons	507..1101		
GI Descrip.	(AB011270) importin-beta1 [Oryza sativa]		

Seq. No.	56171	Seq. ID	OJ000323_12.0419.C20
Gene No.	117584	Strand	+
Start	495	End	1101
Name	OJ000323_12.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	735	End	1031
GI	none	Score	187
Exons	735..938, 743..898, 932..1024, 936..1031		

Seq. No.	56172	Seq. ID	OJ000323_12.0419.C23
Gene No.	117585	Strand	+
Start	1	End	4260
Name	OJ000323_12.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	4260
GI	128352	Score	34
Exons	1..25, 2066..2282, 3494..3749, 4166..4260		
GI Descrip.	NITROGEN CATABOLIC ENZYME REGULATORY PROTEIN gi 1107471 gb AAB03891.1 (M33956) nitrogen catabolic enzyme regulatory protein [Neurospora crassa]		

Seq. No.	56172	Seq. ID	OJ000323_12.0419.C23
Gene No.	117585	Strand	+
Start	1	End	4260
Name	OJ000323_12.0419.C23.o1.gs	Method	GENSCAN
Start	220	End	318
GI	none	Score	.91
Exons	220..318		

Seq. No.	56172	Seq. ID	OJ000323_12.0419.C23
Gene No.	117586	Strand	-
Start	1839	End	5331
Name	OJ000323_12.0419.C23.o2.gs	Method	GENSCAN
Start	1839	End	5331
GI	none	Score	.49
Exons	1839..2687, 2695..3274, 3709..3809, 4995..5087, 5242..5331		

Seq. No.	56172	Seq. ID	OJ000323_12.0419.C23
Gene No.	117587	Strand	-
Start	5862	End	5949
Name	OJ000323_12.0419.C23.o1.gp	Method	AAT/GAP
Start	5862	End	5949
GI	none	Score	164
Exons	5862..5949		

Seq. No.	56173	Seq. ID	OJ000323_12.0419.C24
Gene No.	117588	Strand	-
Start	690	End	2817
Name	OJ000323_12.0419.C24.o1.gs	Method	GENSCAN
Start	690	End	2799
GI	none	Score	.86

Exons 690..832, 2157..2310, 2398..2799

Seq. No. 56173 Seq. ID OJ000323_12.0419.C24
Gene No. 117588 Strand -
Start 690 End 2817
Name OJ000323_12.0419.C24.o1.np Method AAT/NAP
Start 2116 End 2817
GI 7485230 Score 232
Exons 2116..2268, 2398..2670, 2707..2817
GI Descrip. hypothetical protein A_IG002N01.28 - Arabidopsis thaliana
gi|2191148|gb|AAB61035.1| (AF007269) A_IG002N01.28 gene product
[Arabidopsis thaliana]

Seq. No. 56173 Seq. ID OJ000323_12.0419.C24
Gene No. 117588 Strand -
Start 690 End 2817
Name OJ000323_12.0419.C24.o1.tm Method TBLASTX:Maize
Start 2446 End 2817
GI none Score 67
Exons 2446..2502, 2447..2500, 2501..2815, 2501..2815, 2503..2817

Seq. No. 56174 Seq. ID OJ000323_12.0419.C25
Gene No. 117589 Strand -
Start 55 End 1836
Name OJ000323_12.0419.C25.o1.gs Method GENSCAN
Start 55 End 1836
GI none Score .58
Exons 55..218, 1405..1519, 1738..1836

Seq. No. 56174 Seq. ID OJ000323_12.0419.C25
Gene No. 117590 Strand -
Start 2966 End 3099
Name OJ000323_12.0419.C25.o2.gs Method GENSCAN
Start 2966 End 3099
GI none Score .83
Exons 2966..3099

Seq. No. 56175 Seq. ID OJ000323_12.0419.C28
Gene No. 117591 Strand -
Start 9 End 3680
Name OJ000323_12.0419.C28.o1.gs Method GENSCAN
Start 9 End 3680
GI none Score .89
Exons 9..217, 300..470, 549..1435, 1522..1968, 2047..2072, 2226..2710,
3154..3680

Seq. No. 56176 Seq. ID OJ000323_12.0419.C29
Gene No. 117592 Strand -
Start 19 End 1256
Name OJ000323_12.0419.C29.o1.tw Method TBLASTX:Wheat
Start 1 End 1165
GI none Score 76
Exons 1..30, 31..135, 32..139, 154..207, 207..251, 208..258, 274..414,
275..400, 412..612, 452..559, 617..958, 619..957, 956..1165,
981..1121

Seq. No. 56176 Seq. ID OJ000323_12.0419.C29

Gene No.	117592	Strand	-
Start	19	End	1256
Name	OJ000323_12.0419.C29.ol.ts	Method	TBLASTX:Soybean
Start	4	End	222
GI	none	Score	99
Exons	4..222, 38..220		

Seq. No.	56176	Seq. ID	OJ000323_12.0419.C29
Gene No.	117592	Strand	-
Start	19	End	1256
Name	OJ000323_12.0419.C29.ol.gs	Method	GENSCAN
Start	19	End	828
GI	none	Score	.47
Exons	19..828		

Seq. No.	56176	Seq. ID	OJ000323_12.0419.C29
Gene No.	117592	Strand	-
Start	19	End	1256
Name	OJ000323_12.0419.C29.ol.np	Method	AAT/NAP
Start	329	End	1256
GI	6742729	Score	769
Exons	329..1256		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	56176	Seq. ID	OJ000323_12.0419.C29
Gene No.	117592	Strand	-
Start	19	End	1256
Name	OJ000323_12.0419.C29.ol.tc	Method	TBLASTX:Cress
Start	448	End	874
GI	none	Score	44
Exons	448..612, 452..559, 617..874, 634..849		

Seq. No.	56176	Seq. ID	OJ000323_12.0419.C29
Gene No.	117592	Strand	-
Start	19	End	1256
Name	OJ000323_12.0419.C29.ol.tm	Method	TBLASTX:Maize
Start	805	End	1124
GI	none	Score	70
Exons	805..948, 824..955, 965..1123, 978..1124		

Seq. No.	56177	Seq. ID	OJ000323_12.0419.C32
Gene No.	117593	Strand	-
Start	797	End	871
Name	OJ000323_12.0419.C32.ol.gs	Method	GENSCAN
Start	797	End	871
GI	none	Score	.8
Exons	797..871		

Seq. No.	56178	Seq. ID	OJ000323_12.0419.C34
Gene No.	117594	Strand	+
Start	94	End	4249
Name	OJ000323_12.0419.C34.ol.gs	Method	GENSCAN
Start	94	End	4249
GI	none	Score	.73
Exons	94..206, 1507..1630, 2205..2261, 2346..2423, 2527..2648, 2754..2914, 3710..3786, 3861..3974, 4148..4249		

Seq. No.	56179	Seq. ID	OJ000323_12.0419.C43
Gene No.	117595	Strand	-
Start	9	End	149
Name	OJ000323_12.0419.C43.o1.gp	Method	AAT/GAP
Start	9	End	149
GI	uC-osflcyp022c06b2	Score	231
Exons	9..149		
GI Descrip.	'5042437/gb AC007789.1 AC007789 8.0e-25 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117596	Strand	-
Start	1	End	1841
Name	OJ000323_12.0419.C45.o1.gp	Method	AAT/GAP
Start	1	End	1841
GI	47_1.R1084	Score	3442
Exons	1..1293, 1391..1841		
GI Descrip.	'3983663/dbj BAA34861 0.0e+00 (AB011270) importin-beta1 [Oryza sativa]'		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117596	Strand	+
Start	1	End	1841
Name	OJ000323_12.0419.C45.o1.np	Method	AAT/NAP
Start	1	End	1583
GI	3983663	Score	2474
Exons	1..1293, 1391..1583		
GI Descrip.	(AB011270) importin-beta1 [Oryza sativa]		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117596	Strand	+
Start	1	End	1841
Name	OJ000323_12.0419.C45.o1.gs	Method	GENSCAN
Start	254	End	1586
GI	none	Score	.74
Exons	254..1293, 1391..1586		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-
Start	2551	End	5241
Name	OJ000323_12.0419.C45.o2.tm	Method	TBLASTX:Maize
Start	1	End	262
GI	none	Score	375
Exons	1..261, 2..262		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-
Start	2551	End	5241
Name	OJ000323_12.0419.C45.o1.ts	Method	TBLASTX:Soybean
Start	38	End	1532
GI	none	Score	86
Exons	38..124, 130..342, 130..381, 134..493, 134..481, 592..654, 593..667, 656..1219, 691..1068, 762..1142, 1132..1215, 1220..1288, 1392..1532		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-

Start	2551	End	5241
Name	OJ000323_12.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	263	End	1526
GI	none	Score	127
Exons	263..361, 263..340, 271..360, 359..490, 500..670, 523..654, 686..1219, 691..1068, 762..1106, 1129..1206, 1220..1288, 1388..1450, 1392..1526		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-
Start	2551	End	5241
Name	OJ000323_12.0419.C45.o2.tc	Method	TBLASTX:Cress
Start	425	End	904
GI	none	Score	45
Exons	425..481, 524..655, 616..639, 692..904, 712..897		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-
Start	2551	End	5241
Name	OJ000323_12.0419.C45.o1.tw	Method	TBLASTX:Wheat
Start	1172	End	1593
GI	none	Score	141
Exons	1172..1294, 1174..1293, 1174..1296, 1175..1309, 1387..1584, 1388..1579, 1389..1586, 1390..1593		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-
Start	2551	End	5241
Name	OJ000323_12.0419.C45.o6.tm	Method	TBLASTX:Maize
Start	1526	End	1797
GI	none	Score	97
Exons	1526..1612, 1527..1607, 1528..1614, 1534..1617, 1616..1660, 1618..1659, 1618..1668, 1661..1711, 1663..1701, 1755..1793, 1755..1793, 1756..1797		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-
Start	2551	End	5241
Name	OJ000323_12.0419.C45.o4.tc	Method	TBLASTX:Cress
Start	2548	End	2748
GI	none	Score	114
Exons	2548..2748, 2549..2692		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-
Start	2551	End	5241
Name	OJ000323_12.0419.C45.o2.gs	Method	GENSCAN
Start	2551	End	5241
GI	none	Score	.78
Exons	2551..3128, 3226..3358, 3735..4255, 4311..4526, 5136..5241		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-
Start	2551	End	5241
Name	OJ000323_12.0419.C45.o2.tw	Method	TBLASTX:Wheat
Start	2551	End	2868
GI	none	Score	235

Exons 2551..2769, 2552..2749, 2758..2868

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-
Start	2551	End	5241
Name	OJ000323_12.0419.C45.o4.tm	Method	TBLASTX:Maize
Start	2557	End	2755
GI	none	Score	174
Exons	2557..2754, 2570..2755		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-
Start	2551	End	5241
Name	OJ000323_12.0419.C45.o2.np	Method	AAT/NAP
Start	2560	End	4530
GI	4588001	Score	767
Exons	2560..3128, 3226..3358, 3735..4070, 4128..4530		
GI Descrip.	(AF085279) hypothetical Ser-Thr protein kinase [Arabidopsis thaliana]		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-
Start	2551	End	5241
Name	OJ000323_12.0419.C45.o2.ts	Method	TBLASTX:Soybean
Start	2560	End	3335
GI	none	Score	121
Exons	2560..2751, 2561..2749, 2954..3127, 2956..3126, 3201..3335, 3227..3334		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-
Start	2551	End	5241
Name	OJ000323_12.0419.C45.o5.tm	Method	TBLASTX:Maize
Start	2954	End	3133
GI	none	Score	104
Exons	2954..3133, 2956..3132		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-
Start	2551	End	5241
Name	OJ000323_12.0419.C45.o1.tc	Method	TBLASTX:Cress
Start	2965	End	3383
GI	none	Score	99
Exons	2965..3126, 2966..3127, 3201..3362, 3227..3361, 3240..3383		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-
Start	2551	End	5241
Name	OJ000323_12.0419.C45.o3.tm	Method	TBLASTX:Maize
Start	3200	End	4010
GI	none	Score	207
Exons	3200..3361, 3201..3362, 3723..3998, 3736..3975, 3987..4010		

Seq. No.	56180	Seq. ID	OJ000323_12.0419.C45
Gene No.	117597	Strand	-
Start	2551	End	5241
Name	OJ000323_12.0419.C45.o3.ts	Method	TBLASTX:Soybean

Start 3724
GI none
Exons 3724...3975, 3732...3989

End 3989
Score 182

Seq. No. 56180
Gene No. 117597
Start 2551
Name OJ000323_12.0419.C45.o3.tc
Start 3732
GI none
Exons 3732...3995, 3763...3975

Seq. ID OJ000323_12.0419.C45
Strand -
End 5241
Method TBLASTX:Cress
End 3995
Score 137

Seq. No. 56181
Gene No. 117598
Start 1277
Name OJ000323_12.0419.C46.o2.gs
Start 1277
GI none
Exons 1277...1315, 2120...2239

Seq. ID OJ000323_12.0419.C46
Strand -
End 2239
Method GENSCAN
End 2239
Score .43

Seq. No. 56182
Gene No. 117599
Start 1009
Name OJ000323_12.0419.C47.o1.gs
Start 1009
GI none
Exons 1009...1059, 1312...1458

Seq. ID OJ000323_12.0419.C47
Strand +
End 1458
Method GENSCAN
End 1458
Score .53

Seq. No. 56183
Gene No. 117600
Start 611
Name OJ000303_12.0419.C1.o1.np
Start 611
GI 6729552
Exons 611...814
GI Descrip. (AL132977) putative protein [Arabidopsis thaliana]

Seq. ID OJ000303_12.0419.C1
Strand +
End 814
Method AAT/NAP
End 814
Score 107

Seq. No. 56184
Gene No. 117601
Start 218
Name OJ000303_12.0419.C2.o1.gs
Start 218
GI none
Exons 218...316

Seq. ID OJ000303_12.0419.C2
Strand +
End 316
Method GENSCAN
End 316
Score .45

Seq. No. 56185
Gene No. 117602
Start 4037
Name OJ000303_12.0419.C4.o2.gs
Start 4037
GI none
Exons 4037...4048, 4258...4929, 5009...5044, 5474...6433, 6484...6667, 6905...8501, 8544...10035

Seq. ID OJ000303_12.0419.C4
Strand +
End 10035
Method GENSCAN
End 10035
Score .52

Seq. No. 56185
Gene No. 117602
Start 4037

Seq. ID OJ000303_12.0419.C4
Strand +
End 10035

Name	OJ000303_12.0419.C4.o2.np	Method	AAT/NAP
Start	4324	End	5220
GI	5042448	Score	1333
Exons	4324..4885, 4925..5220		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117602	Strand	+
Start	4037	End	10035
Name	OJ000303_12.0419.C4.o3.np	Method	AAT/NAP
Start	5474	End	10032
GI	4680179	Score	7675
Exons	5474..10032		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117603	Strand	-
Start	1364	End	2113
Name	OJ000303_12.0419.C4.o1.np	Method	AAT/NAP
Start	273	End	2113
GI	6907086	Score	1386
Exons	273..444, 487..660, 775..895, 1119..1289, 1347..2113		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117603	Strand	-
Start	1364	End	2113
Name	OJ000303_12.0419.C4.o1.gs	Method	GENSCAN
Start	1364	End	1871
GI	none	Score	.51
Exons	1364..1696, 1770..1871		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117604	Strand	
Start	5737	End	6277
Name	OJ000303_12.0419.C4.o7.tw	Method	TBLASTX:Wheat
Start	5737	End	6097
GI	none	Score	304
Exons	5737..5841, 5741..6097, 5866..6093		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117604	Strand	
Start	5737	End	6277
Name	OJ000303_12.0419.C4.o6.tm	Method	TBLASTX:Maize
Start	5981	End	6277
GI	none	Score	209
Exons	5981..6277, 5981..6265, 5998..6168		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117605	Strand	
Start	6613	End	7032
Name	OJ000303_12.0419.C4.o8.tm	Method	TBLASTX:Maize
Start	6613	End	6933
GI	none	Score	182
Exons	6613..6933, 6657..6758		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117605	Strand	.
Start	6613	End	7032
Name	OJ000303_12.0419.C4.o8.tw	Method	TBLASTX:Wheat
Start	6616	End	7032
GI	none	Score	155
Exons	6616..6825, 6651..6764, 6825..7031, 6847..7032, 6876..7031		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117606	Strand	
Start	7195	End	8064
Name	OJ000303_12.0419.C4.o4.tw	Method	TBLASTX:Wheat
Start	7195	End	7677
GI	none	Score	536
Exons	7195..7677, 7299..7634		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117606	Strand	
Start	7195	End	8064
Name	OJ000303_12.0419.C4.o5.tm	Method	TBLASTX:Maize
Start	7207	End	7496
GI	none	Score	316
Exons	7207..7494, 7305..7496		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117606	Strand	
Start	7195	End	8064
Name	OJ000303_12.0419.C4.o4.ts	Method	TBLASTX:Soybean
Start	7231	End	7545
GI	none	Score	183
Exons	7231..7545, 7347..7544		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117606	Strand	
Start	7195	End	8064
Name	OJ000303_12.0419.C4.o4.tm	Method	TBLASTX:Maize
Start	7564	End	8064
GI	none	Score	150
Exons	7564..7743, 7729..8064, 7815..7946, 7819..8058		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117606	Strand	
Start	7195	End	8064
Name	OJ000303_12.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	7618	End	8013
GI	none	Score	57
Exons	7618..7650, 7620..7649, 7654..8013, 7654..7734, 7749..8012		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117606	Strand	
Start	7195	End	8064
Name	OJ000303_12.0419.C4.o5.tw	Method	TBLASTX:Wheat
Start	7726	End	8028
GI	none	Score	400
Exons	7726..8028, 7727..7828, 7746..8027		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
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Gene No.	117607	Strand	
Start	8029	End	8544
Name	OJ000303_12.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	8029	End	8544
GI	none	Score	626
Exons	8029..8544, 8061..8372, 8107..8454		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117607	Strand	
Start	8029	End	8544
Name	OJ000303_12.0419.C4.o3.ts	Method	TBLASTX:Soybean
Start	8035	End	8280
GI	none	Score	202
Exons	8035..8280		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117607	Strand	
Start	8029	End	8544
Name	OJ000303_12.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	8101	End	8466
GI	none	Score	488
Exons	8101..8454, 8103..8369, 8155..8466, 8262..8459		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117608	Strand	
Start	8545	End	10040
Name	OJ000303_12.0419.C4.o3.tw	Method	TBLASTX:Wheat
Start	8545	End	9021
GI	none	Score	585
Exons	8545..9021, 8575..8988, 8766..9020		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117608	Strand	
Start	8545	End	10040
Name	OJ000303_12.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	8728	End	9045
GI	none	Score	89
Exons	8728..8901, 8902..9045, 8904..9044		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117608	Strand	
Start	8545	End	10040
Name	OJ000303_12.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	8809	End	9069
GI	none	Score	299
Exons	8809..9069, 8814..9068		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117608	Strand	
Start	8545	End	10040
Name	OJ000303_12.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	8868	End	9159
GI	none	Score	392
Exons	8868..9155, 8869..9159		

Seq. No.	56185	Seq. ID	OJ000303_12.0419.C4
Gene No.	117608	Strand	

Start 8545
 Name OJ000303_12.0419.C4.o1.tw
 Start 9028
 GI none
 Exons 9028..9654, 9030..9653

End 10040
 Method TBLASTX:Wheat
 End 9654
 Score 731

Seq. No. 56185
 Gene No. 117608
 Start 8545
 Name OJ000303_12.0419.C4.o1.tm
 Start 9208
 GI none
 Exons 9208..9369, 9216..9362, 9367..9807, 9369..9794

Seq. ID OJ000303_12.0419.C4
 Strand
 End 10040
 Method TBLASTX:Maize
 End 9807
 Score 223

Seq. No. 56185
 Gene No. 117608
 Start 8545
 Name OJ000303_12.0419.C4.o6.tw
 Start 9654
 GI none
 Exons 9654..9725, 9655..9987, 9682..9762, 9747..9923, 9805..9966

Seq. ID OJ000303_12.0419.C4
 Strand
 End 10040
 Method TBLASTX:Wheat
 End 9987
 Score 367

Seq. No. 56185
 Gene No. 117608
 Start 8545
 Name OJ000303_12.0419.C4.o7.tm
 Start 9811
 GI none
 Exons 9811..10008, 9828..9902, 9984..10040

Seq. ID OJ000303_12.0419.C4
 Strand
 End 10040
 Method TBLASTX:Maize
 End 10040
 Score 197

Seq. No. 56186
 Gene No. 117609
 Start 541
 Name OJ000303_12.0419.C7.o1.gs
 Start 541
 GI none
 Exons 541..575, 2219..2333

Seq. ID OJ000303_12.0419.C7
 Strand +
 End 2333
 Method GENSCAN
 End 2333
 Score .82

Seq. No. 56186
 Gene No. 117610
 Start 4738
 Name OJ000303_12.0419.C7.o2.gs
 Start 4738
 GI none
 Exons 4738..4866, 5813..5863

Seq. ID OJ000303_12.0419.C7
 Strand -
 End 5863
 Method GENSCAN
 End 5863
 Score .56

Seq. No. 56186
 Gene No. 117610
 Start 4738
 Name OJ000303_12.0419.C7.o1.np
 Start 4751
 GI 7340920
 Exons 4751..4866, 5829..5863
 GI Descrip. (AP001550) hypothetical protein [Oryza sativa]

Seq. ID OJ000303_12.0419.C7
 Strand -
 End 5863
 Method AAT/NAP
 End 5863
 Score 159

Seq. No. 56187
 Gene No. 117611

Seq. ID OJ000303_12.0419.C8
 Strand +

Start	4864	End	6903
Name	OJ000303_12.0419.C8.o2.gs	Method	GENSCAN
Start	4864	End	6903
GI	none	Score	.64
Exons	4864..4870, 4956..5016, 5099..5300, 5370..5480, 5535..5708, 6079..6351, 6733..6903		

Seq. No.	56187	Seq. ID	OJ000303_12.0419.C8
Gene No.	117611	Strand	+
Start	4864	End	6903
Name	OJ000303_12.0419.C8.o1.np	Method	AAT/NAP
Start	5316	End	6317
GI	7507168	Score	60
Exons	5316..5488, 5881..6048, 6214..6317		
GI Descrip.	hypothetical protein T05C12.10 - Caenorhabditis elegans gi 3878725 emb CAA90265.1 (Z49968) similar to drosophila hedgehog protein; cDNA EST EMBL:M89431 comes from this gene; cDNA EST EMBL:M89067 comes from this gene; cDNA EST EMBL:C11824 comes from this gene; cDNA EST yk424b7.3 comes from this gene; cDNA EST yk424b7.5 comes from thi> gi 3879454 emb CAA91313.1 (Z66500) sim		

Seq. No.	56187	Seq. ID	OJ000303_12.0419.C8
Gene No.	117612	Strand	-
Start	867	End	2351
Name	OJ000303_12.0419.C8.o1.gs	Method	GENSCAN
Start	867	End	2351
GI	none	Score	.5
Exons	867..886, 2171..2351		

Seq. No.	56187	Seq. ID	OJ000303_12.0419.C8
Gene No.	117613	Strand	-
Start	8174	End	8596
Name	OJ000303_12.0419.C8.o3.gs	Method	GENSCAN
Start	8174	End	8596
GI	none	Score	.83
Exons	8174..8596		

Seq. No.	56188	Seq. ID	OJ000303_12.0419.C9
Gene No.	117614	Strand	+
Start	296	End	2245
Name	OJ000303_12.0419.C9.o1.gs	Method	GENSCAN
Start	296	End	2245
GI	none	Score	.6
Exons	296..372, 2023..2245		

Seq. No.	56188	Seq. ID	OJ000303_12.0419.C9
Gene No.	117615	Strand	+
Start	3631	End	4160
Name	OJ000303_12.0419.C9.o1.gp	Method	AAT/GAP
Start	3631	End	4160
GI	LIB3475-006-P1-K1-D9	Score	550
Exons	3631..4022, 4118..4160		
GI Descrip.	'5923669/gb AAD56320.1 AC009326_7 2.0e-09 (AC009326) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	56188	Seq. ID	OJ000303_12.0419.C9
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Gene No.	117616	Strand	-
Start	3979	End	9077
Name	OJ000303_12.0419.C9.o2.gs	Method	GENSCAN
Start	3979	End	9077
GI	none	Score	.7
Exons	3979..4214, 7789..8055, 9053..9077		
Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117617	Strand	+
Start	48	End	1916
Name	OJ000303_12.0419.C11.o1.gs	Method	GENSCAN
Start	48	End	1916
GI	none	Score	.43
Exons	48..57, 603..686, 763..823, 937..1054, 1336..1446, 1502..1604, 1729..1916		
Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117618	Strand	+
Start	8251	End	8801
Name	OJ000303_12.0419.C11.o3.gs	Method	GENSCAN
Start	8251	End	8801
GI	none	Score	.47
Exons	8251..8428, 8453..8524, 8602..8733, 8773..8801		
Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117619	Strand	-
Start	1927	End	6805
Name	OJ000303_12.0419.C11.o1.np	Method	AAT/NAP
Start	1927	End	6292
GI	7444451	Score	4816
Exons	1927..3941, 3968..6292		
GI Descrip.	probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi 2586082 gb AAB82754.1 (U72725) retrofit [Oryza longistaminata]		
Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117619	Strand	-
Start	1927	End	6805
Name	OJ000303_12.0419.C11.o2.gs	Method	GENSCAN
Start	3364	End	6805
GI	none	Score	.57
Exons	3364..3851, 5233..5674, 5696..6289, 6722..6805		
Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117620	Strand	-
Start	9374	End	10363
Name	OJ000303_12.0419.C11.o4.tc	Method	TBLASTX:Cress
Start	1866	End	2403
GI	none	Score	65
Exons	1866..1886, 1951..2166, 2173..2301, 2311..2403		
Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117620	Strand	-
Start	9374	End	10363
Name	OJ000303_12.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	1936	End	2598
GI	none	Score	38

Exons 1936..2148, 2084..2152, 2179..2598, 2237..2554

Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117620	Strand	-
Start	9374	End	10363
Name	OJ000303_12.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	1978	End	2574
GI	none	Score	44
Exons	1978..2574, 2084..2116, 2179..2376, 2183..2404, 2441..2572		

Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117620	Strand	-
Start	9374	End	10363
Name	OJ000303_12.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	2337	End	2775
GI	none	Score	62
Exons	2337..2378, 2338..2775, 2339..2425, 2456..2770		

Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117620	Strand	-
Start	9374	End	10363
Name	OJ000303_12.0419.C11.o3.tc	Method	TBLASTX:Cress
Start	2641	End	2889
GI	none	Score	188
Exons	2641..2889		

Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117620	Strand	-
Start	9374	End	10363
Name	OJ000303_12.0419.C11.o2.tm	Method	TBLASTX:Maize
Start	2716	End	3156
GI	none	Score	45
Exons	2716..3156, 2756..2803, 2846..3136		

Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117620	Strand	-
Start	9374	End	10363
Name	OJ000303_12.0419.C11.o3.tw	Method	TBLASTX:Wheat
Start	2776	End	3289
GI	none	Score	61
Exons	2776..2952, 2944..3288, 2983..3129, 2990..3136, 3191..3289		

Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117620	Strand	-
Start	9374	End	10363
Name	OJ000303_12.0419.C11.o2.ts	Method	TBLASTX:Soybean
Start	2953	End	3480
GI	5509260	Score	130
Exons	2953..3480, 2966..3130, 3170..3334		
GI Descrip.	-		

Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117620	Strand	-
Start	9374	End	10363
Name	OJ000303_12.0419.C11.o2.tc	Method	TBLASTX:Cress
Start	3070	End	3339
GI	none	Score	142

Exons 3070..3339, 3071..3331

Seq. No. 56189
Gene No. 117620
Start 9374
Name OJ000303_12.0419.C11.o6.tm
Start 3157
GI none
Exons 3157..3408, 3158..3409

Seq. ID OJ000303_12.0419.C11
Strand -
End 10363
Method TBLASTX:Maize
End 3409
Score 129

Seq. No. 56189
Gene No. 117620
Start 9374
Name OJ000303_12.0419.C11.o1.tc
Start 4089
GI none
Exons 4089..4538, 4269..4541

Seq. ID OJ000303_12.0419.C11
Strand -
End 10363
Method TBLASTX:Cress
End 4541
Score 118

Seq. No. 56189
Gene No. 117620
Start 9374
Name OJ000303_12.0419.C11.o4.tw
Start 4089
GI none
Exons 4089..4448, 4093..4305

Seq. ID OJ000303_12.0419.C11
Strand -
End 10363
Method TBLASTX:Wheat
End 4448
Score 95

Seq. No. 56189
Gene No. 117620
Start 9374
Name OJ000303_12.0419.C11.o3.ts
Start 4107
GI none
Exons 4107..4526

Seq. ID OJ000303_12.0419.C11
Strand -
End 10363
Method TBLASTX:Soybean
End 4526
Score 278

Seq. No. 56189
Gene No. 117620
Start 9374
Name OJ000303_12.0419.C11.o5.tm
Start 4110
GI none
Exons 4110..4433

Seq. ID OJ000303_12.0419.C11
Strand -
End 10363
Method TBLASTX:Maize
End 4433
Score 276

Seq. No. 56189
Gene No. 117620
Start 9374
Name OJ000303_12.0419.C11.o6.tw
Start 4449
GI none
Exons 4449..4532, 4551..4739, 4558..4710

Seq. ID OJ000303_12.0419.C11
Strand -
End 10363
Method TBLASTX:Wheat
End 4739
Score 88

Seq. No. 56189
Gene No. 117620
Start 9374
Name OJ000303_12.0419.C11.o4.ts
Start 4548
GI none
Exons 4548..4718, 4760..4957

Seq. ID OJ000303_12.0419.C11
Strand -
End 10363
Method TBLASTX:Soybean
End 4957
Score 168

Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117620	Strand	-
Start	9374	End	10363
Name	OJ000303_12.0419.C11.o2.tw	Method	TBLASTX:Wheat
Start	5024	End	5413
GI	none	Score	144
Exons	5024..5413, 5085..5378, 5183..5395		

Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117620	Strand	-
Start	9374	End	10363
Name	OJ000303_12.0419.C11.o4.tm	Method	TBLASTX:Maize
Start	5231	End	5779
GI	none	Score	79
Exons	5231..5428, 5231..5476, 5588..5779		

Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117620	Strand	-
Start	9374	End	10363
Name	OJ000303_12.0419.C11.o3.tm	Method	TBLASTX:Maize
Start	5781	End	6202
GI	none	Score	166
Exons	5781..6083, 5783..6085, 6110..6202		

Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117620	Strand	-
Start	9374	End	10363
Name	OJ000303_12.0419.C11.o5.tw	Method	TBLASTX:Wheat
Start	5895	End	6274
GI	none	Score	58
Exons	5895..6122, 5897..6274, 6190..6228		

Seq. No.	56189	Seq. ID	OJ000303_12.0419.C11
Gene No.	117620	Strand	-
Start	9374	End	10363
Name	OJ000303_12.0419.C11.o4.gs	Method	GENSCAN
Start	9374	End	10363
GI	none	Score	.51
Exons	9374..9429, 10291..10363		

Seq. No.	56190	Seq. ID	OJ000303_12.0419.C12
Gene No.	117621	Strand	+
Start	1	End	393
Name	OJ000303_12.0419.C12.o1.gp	Method	AAT/GAP
Start	1	End	393
GI	3972_1.R1084	Score	786
Exons	1..393		
GI Descrip.	'2462834 5.0e-26 (AF000657) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	56190	Seq. ID	OJ000303_12.0419.C12
Gene No.	117622	Strand	-
Start	1	End	1305
Name	OJ000303_12.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	1305
GI	2462834	Score	147

Exons 1..158, 1240..1305
GI Descrip. (AF000657) hypothetical protein [Arabidopsis thaliana]

Seq. No.	56190	Seq. ID	OJ000303_12.0419.C12
Gene No.	117622	Strand	-
Start	1	End	1305
Name	OJ000303_12.0419.C12.o1.gs	Method	GENSCAN
Start	9	End	263
GI	none	Score	1
Exons	9..263		

Seq. No.	56190	Seq. ID	OJ000303_12.0419.C12
Gene No.	117623	Strand	-
Start	1682	End	3477
Name	OJ000303_12.0419.C12.o2.np	Method	AAT/NAP
Start	1682	End	3477
GI	4803933	Score	281
Exons	1682..1861, 2159..2231, 2893..3477		
GI Descrip.	(AC006264) putative disease resistance response protein		
	[Arabidopsis thaliana]		

Seq. No.	56190	Seq. ID	OJ000303_12.0419.C12
Gene No.	117623	Strand	-
Start	1682	End	3477
Name	OJ000303_12.0419.C12.o3.gs	Method	GENSCAN
Start	2908	End	3444
GI	none	Score	1
Exons	2908..3444		

Seq. No.	56190	Seq. ID	OJ000303_12.0419.C12
Gene No.	117624	Strand	-
Start	8591	End	9318
Name	OJ000303_12.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	3	End	9040
GI	none	Score	121
Exons	3..83, 114..173, 2917..3099, 2918..3115, 3088..3186, 3265..3351, 8603..8785, 8613..8786, 8795..8881, 8796..8882, 8894..8923, 8903..8953, 8984..9040		

Seq. No.	56190	Seq. ID	OJ000303_12.0419.C12
Gene No.	117624	Strand	-
Start	8591	End	9318
Name	OJ000303_12.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	3	End	9025
GI	none	Score	80
Exons	3..170, 2915..3052, 2917..3045, 3046..3189, 3059..3187, 3208..3351, 3209..3328, 8609..8728, 8616..8729, 8744..8788, 8795..8881, 8796..8972, 8894..9025, 8895..9014		

Seq. No.	56190	Seq. ID	OJ000303_12.0419.C12
Gene No.	117624	Strand	-
Start	8591	End	9318
Name	OJ000303_12.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	33	End	9123
GI	none	Score	101
Exons	33..176, 67..177, 2900..3193, 2905..3192, 3184..3351, 3185..3343, 8600..8785, 8613..8789, 8795..9010, 8796..9002,		

9106..9123

Seq. No.	56190	Seq. ID	OJ000303_12.0419.C12
Gene No.	117624	Strand	-
Start	8591	End	9318
Name	OJ000303_12.0419.C12.o4.gs	Method	GENSCAN
Start	8591	End	9124
GI	none	Score	.99
Exons	8591..9124		

Seq. No.	56190	Seq. ID	OJ000303_12.0419.C12
Gene No.	117624	Strand	-
Start	8591	End	9318
Name	OJ000303_12.0419.C12.o3.np	Method	AAT/NAP
Start	8597	End	9318
GI	6227011	Score	355
Exons	8597..9025, 9174..9318		
GI Descrip.	(AC009513) F12P19.3 [Arabidopsis thaliana]		

Seq. No.	56190	Seq. ID	OJ000303_12.0419.C12
Gene No.	117624	Strand	-
Start	8591	End	9318
Name	OJ000303_12.0419.C12.o2.gp	Method	AAT/GAP
Start	8709	End	9147
GI	LIB3433-051-P1-K1-E4	Score	811
Exons	8709..9147		
GI Descrip.	'115772/sp P12330 CB21_ORYSA 6.0e-24 CHLOROPHYLL A-B BINDING PROTEIN 1 PRECURSOR (LHCII TYPE I CAB-1) (LHCP) >gi_82460_pir_S03705 chlorophyll a/b-binding protein 1R precursor - rice >gi_20178_emb_CAA32108_ (X13908) chlorophyll a/b-binding preprotein (AA -31 to 235) [Oryza sativa]'		

Seq. No.	56191	Seq. ID	OJ000303_12.0419.C13
Gene No.	117625	Strand	+
Start	1	End	3757
Name	OJ000303_12.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	3757
GI	7106516	Score	181
Exons	1..58, 819..927, 1665..1842, 3689..3757		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	56191	Seq. ID	OJ000303_12.0419.C13
Gene No.	117625	Strand	+
Start	1	End	3757
Name	OJ000303_12.0419.C13.o1.gs	Method	GENSCAN
Start	35	End	616
GI	none	Score	.73
Exons	35..616		

Seq. No.	56191	Seq. ID	OJ000303_12.0419.C13
Gene No.	117626	Strand	+
Start	5315	End	8250
Name	OJ000303_12.0419.C13.o2.np	Method	AAT/NAP
Start	5315	End	8238
GI	6691716	Score	2464
Exons	5315..6208, 6400..6575, 6652..6752, 6831..7010, 7088..7285, 7360..7462, 7612..7725, 7799..8238		

GI Descrip. (AP000492) hypothetical protein [Oryza sativa]
gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein
[Oryza sativa]

Seq. No.	56191	Seq. ID	OJ000303_12.0419.C13
Gene No.	117626	Strand	+
Start	5315	End	8250
Name	OJ000303_12.0419.C13.o3.gs	Method	GENSCAN
Start	5315	End	8250
GI	none	Score	.78
Exons	5315..6199, 6355..6575, 6772..7010, 7076..7173, 7175..7285, 7360..7549, 7612..7725, 7799..8250		

Seq. No.	56191	Seq. ID	OJ000303_12.0419.C13
Gene No.	117627	Strand	-
Start	1	End	9688
Name	OJ000303_12.0419.C13.o4.np	Method	AAT/NAP
Start	1	End	9688
GI	5852175	Score	91
Exons	1..105, 8774..8836, 9454..9553, 9664..9688		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		

Seq. No.	56191	Seq. ID	OJ000303_12.0419.C13
Gene No.	117627	Strand	-
Start	1	End	9688
Name	OJ000303_12.0419.C13.o2.gs	Method	GENSCAN
Start	1001	End	3885
GI	none	Score	.42
Exons	1001..1142, 3377..3885		

Seq. No.	56191	Seq. ID	OJ000303_12.0419.C13
Gene No.	117627	Strand	-
Start	1	End	9688
Name	OJ000303_12.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	3355	End	3804
GI	none	Score	68
Exons	3355..3417, 3400..3483, 3413..3484, 3496..3525, 3547..3633, 3658..3708, 3748..3804		

Seq. No.	56191	Seq. ID	OJ000303_12.0419.C13
Gene No.	117627	Strand	-
Start	1	End	9688
Name	OJ000303_12.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	3379	End	3783
GI	none	Score	67
Exons	3379..3483, 3380..3493, 3535..3624, 3536..3640, 3637..3783, 3638..3781		

Seq. No.	56191	Seq. ID	OJ000303_12.0419.C13
Gene No.	117627	Strand	-
Start	1	End	9688
Name	OJ000303_12.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	3409	End	3804
GI	none	Score	78
Exons	3409..3492, 3428..3487, 3547..3633, 3649..3804, 3650..3769		

Seq. No.	56191	Seq. ID	OJ000303_12.0419.C13
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Gene No.	117627	Strand	-
Start	1	End	9688
Name	OJ000303_12.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	5434	End	5725
GI	none	Score	225
Exons	5434..5688, 5435..5725		
Seq. No.	56191	Seq. ID	OJ000303_12.0419.C13
Gene No.	117627	Strand	-
Start	1	End	9688
Name	OJ000303_12.0419.C13.o3.np	Method	AAT/NAP
Start	8583	End	8686
GI	5902445	Score	84
Exons	8583..8686		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	56192	Seq. ID	OJ000303_12.0419.C14
Gene No.	117628	Strand	+
Start	1	End	355
Name	OJ000303_12.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	355
GI	5852180	Score	186
Exons	1..355		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	56192	Seq. ID	OJ000303_12.0419.C14
Gene No.	117629	Strand	+
Start	274	End	546
Name	OJ000303_12.0419.C14.o1.gs	Method	GENSCAN
Start	274	End	546
GI	none	Score	.43
Exons	274..546		
Seq. No.	56192	Seq. ID	OJ000303_12.0419.C14
Gene No.	117630	Strand	-
Start	1128	End	1636
Name	OJ000303_12.0419.C14.o2.np	Method	AAT/NAP
Start	1082	End	1636
GI	5902445	Score	739
Exons	1082..1636		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	56192	Seq. ID	OJ000303_12.0419.C14
Gene No.	117630	Strand	-
Start	1128	End	1636
Name	OJ000303_12.0419.C14.o2.gs	Method	GENSCAN
Start	1128	End	1615
GI	none	Score	.57
Exons	1128..1136, 1253..1615		
Seq. No.	56192	Seq. ID	OJ000303_12.0419.C14
Gene No.	117630	Strand	-
Start	1128	End	1636
Name	OJ000303_12.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	1149	End	1393
GI	none	Score	90
Exons	1149..1232, 1154..1231, 1211..1393, 1212..1271, 1314..1364		

Seq. No.	56192	Seq. ID	OJ000303_12.0419.C14
Gene No.	117630	Strand	-
Start	1128	End	1636
Name	OJ000303_12.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	1172	End	1636
GI	none	Score	99
Exons	1172..1222, 1214..1636, 1341..1544		

Seq. No.	56193	Seq. ID	OJ000303_12.0419.C15
Gene No.	117631	Strand	-
Start	110	End	6713
Name	OJ000303_12.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	2	End	292
GI	none	Score	89
Exons	2..292, 3..140, 89..283		

Seq. No.	56193	Seq. ID	OJ000303_12.0419.C15
Gene No.	117631	Strand	-
Start	110	End	6713
Name	OJ000303_12.0419.C15.o3.tw	Method	TBLASTX:Wheat
Start	32	End	350
GI	none	Score	84
Exons	32..349, 33..143, 35..346, 246..350		

Seq. No.	56193	Seq. ID	OJ000303_12.0419.C15
Gene No.	117631	Strand	-
Start	110	End	6713
Name	OJ000303_12.0419.C15.o1.gs	Method	GENSCAN
Start	110	End	6713
GI	none	Score	.59
Exons	110..460, 560..734, 831..1131, 1303..2262, 2388..2732, 3054..3285, 3460..3819, 4917..4985, 6648..6713		

Seq. No.	56193	Seq. ID	OJ000303_12.0419.C15
Gene No.	117631	Strand	-
Start	110	End	6713
Name	OJ000303_12.0419.C15.o1.np	Method	AAT/NAP
Start	128	End	3771
GI	4680183	Score	4015
Exons	128..658, 746..787, 1283..3771		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	56193	Seq. ID	OJ000303_12.0419.C15
Gene No.	117631	Strand	-
Start	110	End	6713
Name	OJ000303_12.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	320	End	677
GI	none	Score	197
Exons	320..676, 330..677		

Seq. No.	56193	Seq. ID	OJ000303_12.0419.C15
Gene No.	117631	Strand	-
Start	110	End	6713
Name	OJ000303_12.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	350	End	806
GI	none	Score	262

Exons 350..805, 351..806

Seq. No.	56193	Seq. ID	OJ000303_12.0419.C15
Gene No.	117631	Strand	-
Start	110	End	6713
Name	OJ000303_12.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	401	End	766
GI	none	Score	133
Exons	401..535, 542..766		

Seq. No.	56193	Seq. ID	OJ000303_12.0419.C15
Gene No.	117631	Strand	-
Start	110	End	6713
Name	OJ000303_12.0419.C15.o2.tw	Method	TBLASTX:Wheat
Start	1026	End	1483
GI	none	Score	153
Exons	1026..1262, 1028..1258, 1307..1483		

Seq. No.	56193	Seq. ID	OJ000303_12.0419.C15
Gene No.	117631	Strand	-
Start	110	End	6713
Name	OJ000303_12.0419.C15.o3.tm	Method	TBLASTX:Maize
Start	1964	End	2224
GI	none	Score	127
Exons	1964..2224, 2019..2222		

Seq. No.	56193	Seq. ID	OJ000303_12.0419.C15
Gene No.	117631	Strand	-
Start	110	End	6713
Name	OJ000303_12.0419.C15.o4.tw	Method	TBLASTX:Wheat
Start	2063	End	2464
GI	none	Score	63
Exons	2063..2320, 2323..2463, 2360..2464		

Seq. No.	56194	Seq. ID	OJ000303_12.0419.C16
Gene No.	117632	Strand	+
Start	1	End	530
Name	OJ000303_12.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	527
GI	6227011	Score	370
Exons	1..527		
GI Descrip.	(AC009513) F12P19.3 [Arabidopsis thaliana]		

Seq. No.	56194	Seq. ID	OJ000303_12.0419.C16
Gene No.	117632	Strand	+
Start	1	End	530
Name	OJ000303_12.0419.C16.o1.gs	Method	GENSCAN
Start	48	End	530
GI	none	Score	.71
Exons	48..530		

Seq. No.	56194	Seq. ID	OJ000303_12.0419.C16
Gene No.	117633	Strand	+
Start	2956	End	3410
Name	OJ000303_12.0419.C16.o1.gp	Method	AAT/GAP
Start	2956	End	3410
GI	5803302	Score	898

Exons 2956..3410

Seq. No.	56194	Seq. ID	OJ000303_12.0419.C16
Gene No.	117634	Strand	+
Start	6201	End	6326
Name	OJ000303_12.0419.C16.ol.tc	Method	TBLASTX:Cress
Start	95	End	443
GI	none	Score	90
Exons	95..157, 96..218, 167..442, 168..443		

Seq. No.	56194	Seq. ID	OJ000303_12.0419.C16
Gene No.	117634	Strand	+
Start	6201	End	6326
Name	OJ000303_12.0419.C16.ol.ts	Method	TBLASTX:Soybean
Start	96	End	527
GI	none	Score	82
Exons	96..179, 107..169, 167..520, 168..527		

Seq. No.	56194	Seq. ID	OJ000303_12.0419.C16
Gene No.	117634	Strand	+
Start	6201	End	6326
Name	OJ000303_12.0419.C16.ol.tm	Method	TBLASTX:Maize
Start	180	End	527
GI	none	Score	334
Exons	180..233, 181..516, 194..520, 195..521, 258..527		

Seq. No.	56194	Seq. ID	OJ000303_12.0419.C16
Gene No.	117634	Strand	+
Start	6201	End	6326
Name	OJ000303_12.0419.C16.o2.gp	Method	AAT/GAP
Start	6201	End	6326
GI	15984_1.R1084	Score	234
Exons	6201..6326		
GI Descrip.	'2462834 5.0e-17 (AF000657) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	56195	Seq. ID	OJ000303_12.0419.C17
Gene No.	117635	Strand	+
Start	603	End	1234
Name	OJ000303_12.0419.C17.ol.np	Method	AAT/NAP
Start	594	End	1234
GI	6227011	Score	187
Exons	594..960, 1200..1234		
GI Descrip.	(AC009513) F12P19.3 [Arabidopsis thaliana]		

Seq. No.	56195	Seq. ID	OJ000303_12.0419.C17
Gene No.	117635	Strand	+
Start	603	End	1234
Name	OJ000303_12.0419.C17.ol.gs	Method	GENSCAN
Start	603	End	1016
GI	none	Score	.57
Exons	603..1016		

Seq. No.	56196	Seq. ID	OJ000303_12.0419.C18
Gene No.	117636	Strand	+
Start	227	End	300
Name	OJ000303_12.0419.C18.ol.gs	Method	GENSCAN

Start	227	End	300
GI	none	Score	.45
Exons	227..300		

Seq. No.	56197	Seq. ID	OJ000303_12.0419.C19
Gene No.	117637	Strand	
Start	999	End	1419
Name	OJ000303_12.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	999	End	1305
GI	none	Score	164
Exons	999..1202, 1053..1190, 1204..1305, 1209..1304		

Seq. No.	56197	Seq. ID	OJ000303_12.0419.C19
Gene No.	117637	Strand	
Start	999	End	1419
Name	OJ000303_12.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	1065	End	1419
GI	none	Score	86
Exons	1065..1199, 1201..1380, 1384..1419		

Seq. No.	56198	Seq. ID	OJ000303_12.0419.C20
Gene No.	117638	Strand	-
Start	1697	End	2187
Name	OJ000303_12.0419.C20.o1.gs	Method	GENSCAN
Start	1697	End	2187
GI	none	Score	.85
Exons	1697..1761, 2136..2187		

Seq. No.	56198	Seq. ID	OJ000303_12.0419.C20
Gene No.	117639	Strand	-
Start	4036	End	4142
Name	OJ000303_12.0419.C20.o2.gs	Method	GENSCAN
Start	4036	End	4142
GI	none	Score	.8
Exons	4036..4142		

Seq. No.	56199	Seq. ID	OJ000303_12.0419.C23
Gene No.	117640	Strand	-
Start	1	End	323
Name	OJ000303_12.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	323
GI	7489803	Score	156
Exons	1..323		

GI Descrip. pol protein homolog - maize retrotransposon Opie-2
gi|3645899|gb|AAC49502.1| (U68408). 5' end not determined
experimentally [Zea mays]

Seq. No.	56199	Seq. ID	OJ000303_12.0419.C23
Gene No.	117640	Strand	-
Start	1	End	323
Name	OJ000303_12.0419.C23.o1.gs	Method	GENSCAN
Start	153	End	320
GI	none	Score	.54
Exons	153..320		

Seq. No.	56200	Seq. ID	OJ000303_12.0419.C27
Gene No.	117641	Strand	+

Start	40	End	3198
Name	OJ000303_12.0419.C27.ol.gs	Method	GENSCAN
Start	40	End	3198
GI	none	Score	.89
Exons	40..291, 849..1180, 1488..1578, 1685..1751, 1850..1947, 2041..2217, 2600..2676, 2901..3198		

Seq. No.	56200	Seq. ID	OJ000303_12.0419.C27
Gene No.	117641	Strand	+
Start	40	End	3198
Name	OJ000303_12.0419.C27.ol.np	Method	AAT/NAP
Start	986	End	2677
GI	4587533	Score	229
Exons	986..1180, 1290..1382, 1488..1578, 1685..1766, 1838..1947, 2041..2217, 2379..2505, 2610..2677		
GI Descrip.	(AC007060) EST gb AA721821 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	56200	Seq. ID	OJ000303_12.0419.C27
Gene No.	117642	Strand	+
Start	4118	End	4329
Name	OJ000303_12.0419.C27.ol.tm	Method	TBLASTX:Maize
Start	977	End	1377
GI	none	Score	166
Exons	977..1141, 990..1181, 993..1160, 1288..1377, 1288..1377		

Seq. No.	56200	Seq. ID	OJ000303_12.0419.C27
Gene No.	117642	Strand	+
Start	4118	End	4329
Name	OJ000303_12.0419.C27.ol.ts	Method	TBLASTX:Soybean
Start	980	End	1377
GI	none	Score	157
Exons	980..1180, 981..1181, 1287..1376, 1288..1377		

Seq. No.	56200	Seq. ID	OJ000303_12.0419.C27
Gene No.	117642	Strand	+
Start	4118	End	4329
Name	OJ000303_12.0419.C27.ol.gp	Method	AAT/GAP
Start	4118	End	4329
GI	none	Score	340
Exons	4118..4329		

Seq. No.	56201	Seq. ID	OJ000303_12.0419.C28
Gene No.	117643	Strand	+
Start	193	End	685
Name	OJ000303_12.0419.C28.ol.gs	Method	GENSCAN
Start	193	End	685
GI	none	Score	.47
Exons	193..201, 656..685		

Seq. No.	56201	Seq. ID	OJ000303_12.0419.C28
Gene No.	117644	Strand	-
Start	1	End	150
Name	OJ000303_12.0419.C28.ol.gp	Method	AAT/GAP
Start	1	End	150
GI	19278_1.R1084	Score	251
Exons	1..150		

GI Descrip. '2462834 8.0e-21 (AF000657) hypothetical protein [Arabidopsis thaliana]'

Seq. No.	56202	Seq. ID	OJ000303_12.0419.C30
Gene No.	117645	Strand	+
Start	222	End	777
Name	OJ000303_12.0419.C30.ol.gs	Method	GENSCAN
Start	222	End	777
GI	none	Score	.84
Exons	222..474, 696..777		

Seq. No.	56203	Seq. ID	OJ000303_12.0419.C31
Gene No.	117646	Strand	
Start	219	End	533
Name	OJ000303_12.0419.C31.ol.tm	Method	TBLASTX:Maize
Start	219	End	533
GI	none	Score	74
Exons	219..365, 360..521, 375..533, 406..528		

Seq. No.	56204	Seq. ID	OJ000303_12.0419.C32
Gene No.	117647	Strand	+
Start	120	End	278
Name	OJ000303_12.0419.C32.ol.gs	Method	GENSCAN
Start	120	End	278
GI	none	Score	1
Exons	120..278		

Seq. No.	56205	Seq. ID	OJ000223_15.0419.C1
Gene No.	117648	Strand	+
Start	2049	End	3108
Name	OJ000223_15.0419.C1.ol.gs	Method	GENSCAN
Start	2049	End	3108
GI	none	Score	.66
Exons	2049..2123, 2919..3108		

Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117649	Strand	+
Start	51	End	3396
Name	OJ000223_15.0419.C2.ol.gs	Method	GENSCAN
Start	51	End	2846
GI	none	Score	.83
Exons	51..923, 1251..1364, 1602..1866, 2722..2846		

Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117649	Strand	+
Start	51	End	3396
Name	OJ000223_15.0419.C2.ol.np	Method	AAT/NAP
Start	183	End	2834
GI	7406436	Score	906
Exons	183..923, 1251..1364, 1602..1866, 2722..2834		
GI Descrip.	(AL162874) putative protein [Arabidopsis thaliana]		

Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117649	Strand	+
Start	51	End	3396
Name	OJ000223_15.0419.C2.ol.gp	Method	AAT/GAP
Start	1757	End	3396

GI	20235_1.R1084	Score	1474
Exons	1757..1866, 2722..3396		
GI Descrip.	'3927836 2.0e-21 (AC005727) unknown protein [Arabidopsis thaliana]'		

Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117650	Strand	+
Start	5321	End	6598
Name	OJ000223_15.0419.C2.o2.gs	Method	GENSCAN
Start	5321	End	6598
GI	none	Score	.52
Exons	5321..6598		

Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117650	Strand	+
Start	5321	End	6598
Name	OJ000223_15.0419.C2.o2.np	Method	AAT/NAP
Start	5321	End	6589
GI	4510376	Score	413
Exons	5321..5586, 5617..6589		
GI Descrip.	(AC007017) unknown protein [Arabidopsis thaliana]		

Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117651	Strand	+
Start	9039	End	9121
Name	OJ000223_15.0419.C2.o2.gp	Method	AAT/GAP
Start	8889	End	9121
GI	34884_1.R1084	Score	439
Exons	8889..9121		
GI Descrip.	'4176420/dbj BAA37167 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117651	Strand	+
Start	9039	End	9121
Name	OJ000223_15.0419.C2.o3.gs	Method	GENSCAN
Start	9039	End	9121
GI	none	Score	.99
Exons	9039..9121		

Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117652	Strand	+
Start	9039	End	9581
Name	OJ000223_15.0419.C2.o2.tc	Method	TBLASTX:Cress
Start	182	End	350
GI	none	Score	226
Exons	182..313, 183..350		

Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117652	Strand	+
Start	9039	End	9581
Name	OJ000223_15.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	183	End	380
GI	none	Score	236
Exons	183..380, 188..346		

Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
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Gene No.	117652	Strand	+
Start	9039	End	9581
Name	OJ000223_15.0419.C2.o3.ts	Method	TBLASTX:Soybean
Start	183	End	359
GI	none	Score	216
Exons	183..359, 183..242, 185..304		
Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117652	Strand	+
Start	9039	End	9581
Name	OJ000223_15.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	1248	End	2841
GI	none	Score	150
Exons	1248..1364, 1248..1367, 1262..1378, 1604..1873, 1611..1868, 2721..2840, 2725..2841, 2765..2839		
Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117652	Strand	+
Start	9039	End	9581
Name	OJ000223_15.0419.C2.o4.tm	Method	TBLASTX:Maize
Start	1311	End	2834
GI	none	Score	78
Exons	1311..1364, 2721..2834, 2762..2833		
Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117652	Strand	+
Start	9039	End	9581
Name	OJ000223_15.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	1598	End	2804
GI	none	Score	337
Exons	1598..1876, 1599..1868, 2721..2804		
Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117652	Strand	+
Start	9039	End	9581
Name	OJ000223_15.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	1611	End	1870
GI	none	Score	430
Exons	1611..1868, 1611..1865, 1616..1870		
Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117652	Strand	+
Start	9039	End	9581
Name	OJ000223_15.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	5335	End	5542
GI	none	Score	75
Exons	5335..5484, 5342..5497, 5353..5487, 5497..5532, 5498..5542		
Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117652	Strand	+
Start	9039	End	9581
Name	OJ000223_15.0419.C2.o3.tc	Method	TBLASTX:Cress
Start	5342	End	5548
GI	none	Score	119
Exons	5342..5443, 5453..5548		
Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2

Gene No.	117652	Strand	+
Start	9039	End	9581
Name	OJ000223_15.0419.C2.o3.tm	Method	TBLASTX:Maize
Start	5342	End	5542
GI	none	Score	124
Exons	5342..5443, 5353..5442, 5422..5532, 5453..5542		

Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117652	Strand	+
Start	9039	End	9581
Name	OJ000223_15.0419.C2.o4.ts	Method	TBLASTX:Soybean
Start	6161	End	6570
GI	none	Score	214
Exons	6161..6562, 6268..6570		

Seq. No.	56206	Seq. ID	OJ000223_15.0419.C2
Gene No.	117652	Strand	+
Start	9039	End	9581
Name	OJ000223_15.0419.C2.o3.np	Method	AAT/NAP
Start	9039	End	9581
GI	2271477	Score	103
Exons	9039..9121, 9542..9581		
GI Descrip.	(AF009631) AP47/50p [Arabidopsis thaliana]		

Seq. No.	56207	Seq. ID	OJ000223_15.0419.C3
Gene No.	117653	Strand	+
Start	1	End	6232
Name	OJ000223_15.0419.C3.o1.gp	Method	AAT/GAP
Start	1	End	1191
GI	22570_1.R1084	Score	1110
Exons	1..61, 191..305, 621..665, 747..1191		
GI Descrip.	'2245141/emb CAB10562.1 1.0e-17 (297344) acetylornithine deacetylase [Arabidopsis thaliana]'		

Seq. No.	56207	Seq. ID	OJ000223_15.0419.C3
Gene No.	117653	Strand	+
Start	1	End	6232
Name	OJ000223_15.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	824
GI	2271477	Score	325
Exons	1..305, 621..665, 747..824		
GI Descrip.	(AF009631) AP47/50p [Arabidopsis thaliana]		

Seq. No.	56207	Seq. ID	OJ000223_15.0419.C3
Gene No.	117653	Strand	+
Start	1	End	6232
Name	OJ000223_15.0419.C3.o3.ts	Method	TBLASTX:Soybean
Start	176	End	827
GI	none	Score	80
Exons	176..307, 186..308, 191..307, 201..308, 620..673, 621..668, 742..822, 744..827, 746..826		

Seq. No.	56207	Seq. ID	OJ000223_15.0419.C3
Gene No.	117653	Strand	+
Start	1	End	6232
Name	OJ000223_15.0419.C3.o2.tc	Method	TBLASTX:Cress
Start	186	End	844

GI	none	Score	192
Exons	186..308, 191..307, 228..308, 620..673, 621..668, 727..792, 744..827, 745..792, 746..844, 746..823		

Seq. No.	56207	Seq. ID	OJ000223_15.0419.C3
Gene No.	117653	Strand	+
Start	1	End	6232
Name	OJ000223_15.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	186	End	1203
GI	none	Score	205
Exons	186..308, 191..307, 192..308, 611..673, 621..668, 635..679, 732..833, 744..830, 745..834, 897..929, 897..926, 938..991, 972..1070, 992..1072, 1138..1203, 1157..1183		

Seq. No.	56207	Seq. ID	OJ000223_15.0419.C3
Gene No.	117653	Strand	+
Start	1	End	6232
Name	OJ000223_15.0419.C3.o1.gs	Method	GENSCAN
Start	225	End	5592
GI	none	Score	.6
Exons	225..305, 621..665, 747..820, 2922..3051, 3596..3967, 4484..4737, 4847..4955, 5454..5592		

Seq. No.	56207	Seq. ID	OJ000223_15.0419.C3
Gene No.	117653	Strand	+
Start	1	End	6232
Name	OJ000223_15.0419.C3.o2.tw	Method	TBLASTX:Wheat
Start	582	End	3149
GI	none	Score	97
Exons	582..668, 602..667, 603..671, 741..827, 745..852, 745..840, 861..884, 900..929, 945..989, 3093..3149		

Seq. No.	56207	Seq. ID	OJ000223_15.0419.C3
Gene No.	117653	Strand	+
Start	1	End	6232
Name	OJ000223_15.0419.C3.o2.gp	Method	AAT/GAP
Start	3545	End	3894
GI	5607379	Score	683
Exons	3545..3894		
GI Descrip.	2245141/emb CAB10562.1 1.0e-17 (Z97344) acetylornithine deacetylase [Arabidopsis thaliana]		

Seq. No.	56207	Seq. ID	OJ000223_15.0419.C3
Gene No.	117653	Strand	+
Start	1	End	6232
Name	OJ000223_15.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	3641	End	4591
GI	none	Score	390
Exons	3641..3967, 3652..3750, 3811..3969, 4484..4519, 4514..4591, 4537..4590		

Seq. No.	56207	Seq. ID	OJ000223_15.0419.C3
Gene No.	117653	Strand	+
Start	1	End	6232
Name	OJ000223_15.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	3641	End	4603
GI	none	Score	361

Exons 3641..3967, 3658..3969, 4484..4519, 4520..4603, 4537..4602

Seq. No.	56207	Seq. ID	OJ000223_15.0419.C3
Gene No.	117653	Strand	+
Start	1	End	6232
Name	OJ000223_15.0419.C3.o2.np	Method	AAT/NAP
Start	3749	End	6232
GI	5738376	Score	881

Exons 3749..3967, 4484..4737, 4847..4955, 5454..5592, 5707..5804, 6054..6232

GI Descrip. (AL021889) N-acetylornithine deacetylase-like protein, fragment [Arabidopsis thaliana]

Seq. No.	56207	Seq. ID	OJ000223_15.0419.C3
Gene No.	117653	Strand	+
Start	1	End	6232
Name	OJ000223_15.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	3797	End	4901
GI	none	Score	267

Exons 3797..3967, 3797..3859, 3802..3969, 4482..4739, 4483..4740, 4483..4740, 4846..4899, 4847..4900, 4848..4901

Seq. No.	56207	Seq. ID	OJ000223_15.0419.C3
Gene No.	117653	Strand	+
Start	1	End	6232
Name	OJ000223_15.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	3916	End	5770
GI	none	Score	71

Exons 3916..3969, 3920..3967, 4483..4740, 4484..4738, 4821..4835, 4847..4954, 4848..4955, 4849..4956, 5423..5590, 5451..5591, 5451..5591, 5452..5592, 5655..5765, 5708..5770, 5709..5765

Seq. No.	56207	Seq. ID	OJ000223_15.0419.C3
Gene No.	117653	Strand	+
Start	1	End	6232
Name	OJ000223_15.0419.C3.o2.ts	Method	TBLASTX:Soybean
Start	4619	End	5797
GI	none	Score	88

Exons 4619..4738, 4630..4740, 4636..4740, 4835..4942, 4848..4955, 4850..4948, 5451..5591, 5453..5590, 5456..5593, 5708..5797, 5709..5786

Seq. No.	56208	Seq. ID	OJ000223_15.0419.C4
Gene No.	117654	Strand	+
Start	1	End	1081
Name	OJ000223_15.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	1081
GI	6907088	Score	565

Exons 1..55, 231..466, 933..1081

GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. No.	56209	Seq. ID	OJ000223_15.0419.C6
Gene No.	117655	Strand	-
Start	425	End	498
Name	OJ000223_15.0419.C6.o1.gs	Method	GENSCAN
Start	425	End	498
GI	none	Score	1

Exons 425..498

Seq. No.	56210	Seq. ID	OJ000223_15.0419.C7
Gene No.	117656	Strand	+
Start	636	End	721
Name	OJ000223_15.0419.C7.o1.gp	Method	AAT/GAP
Start	636	End	721
GI	3760640	Score	75
Exons	636..721		
GI Descrip.	4176420/dbj BAA37167 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	56210	Seq. ID	OJ000223_15.0419.C7
Gene No.	117657	Strand	+
Start	11154	End	11662
Name	OJ000223_15.0419.C7.o3.gp	Method	AAT/GAP
Start	11154	End	11662
GI	38782_1.R1084	Score	822
Exons	11154..11662		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	56210	Seq. ID	OJ000223_15.0419.C7
Gene No.	117658	Strand	-
Start	232	End	3634
Name	OJ000223_15.0419.C7.o1.gs	Method	GENSCAN
Start	232	End	3616
GI	none	Score	.81
Exons	232..303, 426..572, 712..792, 892..993, 1086..1123, 2404..2506, 2583..2705, 2968..3047, 3168..3313, 3429..3616		

Seq. No.	56210	Seq. ID	OJ000223_15.0419.C7
Gene No.	117658	Strand	-
Start	232	End	3634
Name	OJ000223_15.0419.C7.o1.np	Method	AAT/NAP
Start	238	End	3565
GI	6119535	Score	434
Exons	238..303, 643..792, 892..1003, 2376..2506, 2583..2705, 2968..3047, 3168..3313, 3429..3565		
GI Descrip.	(AC011560) putative glucose acyltransferase [Arabidopsis thaliana]		

Seq. No.	56210	Seq. ID	OJ000223_15.0419.C7
Gene No.	117658	Strand	-
Start	232	End	3634
Name	OJ000223_15.0419.C7.o2.gp	Method	AAT/GAP
Start	2969	End	3634
GI	27860_1.R1084	Score	719
Exons	2969..3047, 3168..3313, 3429..3634		
GI Descrip.	'3169171/gb AAC17814.1 2.0e-12 (AC004401) putative serine carboxypeptidase I [Arabidopsis thaliana] >gi_3445213_gb_AAC32443.1_ (AC004786) putative serine carboxypeptidase I [Arabidopsis thaliana]'		

Seq. No.	56210	Seq. ID	OJ000223_15.0419.C7
Gene No.	117659	Strand	-
Start	4893	End	5371

Name	OJ000223_15.0419.C7.o2.gs	Method	GENSCAN
Start	4893	End	5371
GI	none	Score	.76
Exons	4893..5024, 5171..5371		

Seq. No.	56210	Seq. ID	OJ000223_15.0419.C7
Gene No.	117660	Strand	-
Start	7856	End	9729
Name	OJ000223_15.0419.C7.o2.np	Method	AAT/NAP
Start	7856	End	9729
GI	6907086	Score	1508
Exons	7856..8022, 8081..8264, 8387..8495, 8734..8903, 8962..9729		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	56210	Seq. ID	OJ000223_15.0419.C7
Gene No.	117661	Strand	-
Start	10430	End	13238
Name	OJ000223_15.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	232	End	3318
GI	none	Score	107
Exons	232..300, 402..467, 709..768, 883..999, 887..994, 1086..1130, 2400..2516, 2402..2518, 2402..2512, 2583..2705, 2590..2697, 2965..3012, 3013..3048, 3014..3049, 3166..3228, 3167..3220, 3247..3282, 3253..3282, 3286..3315, 3289..3318		

Seq. No.	56210	Seq. ID	OJ000223_15.0419.C7
Gene No.	117661	Strand	-
Start	10430	End	13238
Name	OJ000223_15.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	232	End	3473
GI	none	Score	74
Exons	232..303, 745..780, 895..948, 970..999, 2402..2509, 2403..2516, 2583..2705, 2965..3012, 3013..3048, 3166..3312, 3167..3259, 3423..3473, 3428..3472		

Seq. No.	56210	Seq. ID	OJ000223_15.0419.C7
Gene No.	117661	Strand	-
Start	10430	End	13238
Name	OJ000223_15.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	3166	End	3475
GI	none	Score	69
Exons	3166..3315, 3167..3259, 3423..3473, 3428..3475		

Seq. No.	56210	Seq. ID	OJ000223_15.0419.C7
Gene No.	117661	Strand	-
Start	10430	End	13238
Name	OJ000223_15.0419.C7.o3.np	Method	AAT/NAP
Start	10430	End	13238
GI	4680186	Score	214
Exons	10430..10848, 11350..11413, 13172..13238		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	56211	Seq. ID	OJ000223_15.0419.C8
Gene No.	117662	Strand	+
Start	1571	End	1972
Name	OJ000223_15.0419.C8.o1.gp	Method	AAT/GAP
Start	1571	End	1972

GI 7406_1.R1084 Score 636
 Exons 1571..1972
 GI Descrip. '1122315|emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'

Seq. No. 56211 Seq. ID OJ000223_15.0419.C8
 Gene No. 117663 Strand -
 Start 2410 End 2837
 Name OJ000223_15.0419.C8.o1.np Method AAT/NAP
 Start 2410 End 2837
 GI 7228438 Score 384
 Exons 2410..2837
 GI Descrip. (AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]

Seq. No. 56212 Seq. ID OJ000223_15.0419.C10
 Gene No. 117664 Strand -
 Start 630 End 1000
 Name OJ000223_15.0419.C10.o1.np Method AAT/NAP
 Start 630 End 1000
 GI 6002794 Score 610
 Exons 630..1000
 GI Descrip. (AF149813) unknown [Oryza sativa]

Seq. No. 56213 Seq. ID OJ000223_15.0419.C11
 Gene No. 117665 Strand +
 Start 786 End 3093
 Name OJ000223_15.0419.C11.o1.gs Method GENSCAN
 Start 786 End 2268
 GI none Score .68
 Exons 786..908, 1121..1520, 1606..1719, 2075..2268

Seq. No. 56213 Seq. ID OJ000223_15.0419.C11
 Gene No. 117665 Strand +
 Start 786 End 3093
 Name OJ000223_15.0419.C11.o1.np Method AAT/NAP
 Start 1192 End 3093
 GI 7485208 Score 90
 Exons 1192..1311, 1351..1520, 3028..3093
 GI Descrip. hypothetical protein - Arabidopsis thaliana gi|2245022|emb|CAB10442.1| (Z97341) hypothetical protein [Arabidopsis thaliana] gi|7268417|emb|CAB78709.1| (AL161544) hypothetical protein [Arabidopsis thaliana]

Seq. No. 56213 Seq. ID OJ000223_15.0419.C11
 Gene No. 117666 Strand -
 Start 3064 End 3609
 Name OJ000223_15.0419.C11.o2.gs Method GENSCAN
 Start 3064 End 3609
 GI none Score .98
 Exons 3064..3609

Seq. No. 56213 Seq. ID OJ000223_15.0419.C11
 Gene No. 117667 Strand -
 Start 6280 End 6353
 Name OJ000223_15.0419.C11.o1.tc Method TBLASTX:Cress

Start	3067	End	3475
GI	none	Score	116
Exons	3067..3162, 3068..3160, 3127..3450, 3137..3475		

Seq. No.	56213	Seq. ID	OJ000223_15.0419.C11
Gene No.	117667	Strand	-
Start	6280	End	6353
Name	OJ000223_15.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	3215	End	3484
GI	none	Score	182
Exons	3215..3484, 3217..3483		

Seq. No.	56213	Seq. ID	OJ000223_15.0419.C11
Gene No.	117667	Strand	-
Start	6280	End	6353
Name	OJ000223_15.0419.C11.o1.gp	Method	AAT/GAP
Start	6280	End	6353
GI	427145	Score	85
Exons	6280..6353		

Seq. No.	56214	Seq. ID	OJ000223_15.0419.C12
Gene No.	117668	Strand	+
Start	14	End	3277
Name	OJ000223_15.0419.C12.o1.gs	Method	GENSCAN
Start	14	End	3048
GI	none	Score	187
Exons	14..60, 1649..1677, 2810..3048		

Seq. No.	56214	Seq. ID	OJ000223_15.0419.C12
Gene No.	117668	Strand	+
Start	14	End	3277
Name	OJ000223_15.0419.C12.o1.gp	Method	AAT/GAP
Start	1513	End	3277
GI	31893_1.R1084	Score	1266
Exons	1513..1677, 2784..3277		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-50 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	56214	Seq. ID	OJ000223_15.0419.C12
Gene No.	117669	Strand	-
Start	3498	End	3888
Name	OJ000223_15.0419.C12.o2.gs	Method	GENSCAN
Start	3498	End	3888
GI	none	Score	.79
Exons	3498..3581, 3724..3888		

Seq. No.	56215	Seq. ID	OJ000223_15.0419.C13
Gene No.	117670	Strand	+
Start	1	End	708
Name	OJ000223_15.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	708
GI	3834314	Score	53
Exons	1..35, 333..490, 667..708		
GI Descrip.	(AC005679) Similar to gene pi010 glycosyltransferase gi 2257490 from S. pombe clone 1750 gb AB004534. ESTs gb T46079 and gb AA394466 come from this gene. [Arabidopsis thaliana]		

Seq. No.	56216	Seq. ID	OJ000223_15.0419.C14
Gene No.	117671	Strand	+
Start	1	End	2412
Name	OJ000223_15.0419.C14.ol.np	Method	AAT/NAP
Start	1	End	1957
GI	6598839	Score	298
Exons	1..48, 274..348, 418..466, 714..782, 890..975, 1048..1104, 1305..1361, 1925..1957		
GI Descrip.	(AC010795) unknown protein [Arabidopsis thaliana]		

Seq. No.	56216	Seq. ID	OJ000223_15.0419.C14
Gene No.	117671	Strand	+
Start	1	End	2412
Name	OJ000223_15.0419.C14.ol.tm	Method	TBLASTX:Maize
Start	277	End	920
GI	none	Score	106
Exons	277..357, 284..349, 289..351, 407..586, 416..586, 417..587, 463..588, 678..758, 685..786, 726..758, 871..918, 888..920, 888..920		

Seq. No.	56216	Seq. ID	OJ000223_15.0419.C14
Gene No.	117671	Strand	+
Start	1	End	2412
Name	OJ000223_15.0419.C14.ol.gs	Method	GENSCAN
Start	292	End	2412
GI	none	Score	.69
Exons	292..348, 407..417, 468..586, 1305..1325, 1872..1992, 2235..2412		

Seq. No.	56216	Seq. ID	OJ000223_15.0419.C14
Gene No.	117671	Strand	+
Start	1	End	2412
Name	OJ000223_15.0419.C14.ol.gp	Method	AAT/GAP
Start	867	End	1756
GI	35170_1.R1084	Score	1269
Exons	867..1104, 1305..1756		
GI Descrip.	'4314356/gb AAD15567 5.0e-15 (AC006340) putative anthocyanidin-3-glucoside rhamnosyltransferase [Arabidopsis thaliana]		

Seq. No.	56217	Seq. ID	OJ000223_15.0419.C15
Gene No.	117672	Strand	-
Start	3352	End	4489
Name	OJ000223_15.0419.C15.ol.np	Method	AAT/NAP
Start	3352	End	4405
GI	4928399	Score	289
Exons	3352..3456, 3493..3803, 3834..4114, 4170..4405		
GI Descrip.	(AF132014) RING-H2 zinc finger protein ATL4 [Arabidopsis thaliana]		

Seq. No.	56217	Seq. ID	OJ000223_15.0419.C15
Gene No.	117672	Strand	-
Start	3352	End	4489
Name	OJ000223_15.0419.C15.ol.gp	Method	AAT/GAP
Start	3501	End	3817
GI	2442769	Score	551
Exons	3501..3817		

Seq. No.	56217	Seq. ID	OJ000223_15.0419.C15
Gene No.	117672	Strand	-
Start	3352	End	4489
Name	OJ000223_15.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	3838	End	4367
GI	none	Score	66
Exons	3838..4029, 4269..4367		

Seq. No.	56217	Seq. ID	OJ000223_15.0419.C15
Gene No.	117672	Strand	-
Start	3352	End	4489
Name	OJ000223_15.0419.C15.o2.gp	Method	AAT/GAP
Start	4145	End	4489
GI	uC-osflM202049d04b1	Score	654
Exons	4145..4489		
GI Descrip.	'3169171/gb AAC17814.1 9.0e-31 (AC004401) putative serine carboxypeptidase I [Arabidopsis thaliana]>gi_3445213_gb_AAC32443.1_ (AC004786) putative serine carboxypeptidase I [Arabidopsis thaliana]'		

Seq. No.	56218	Seq. ID	OJ000223_15.0419.C16
Gene No.	117673	Strand	+
Start	210	End	725
Name	OJ000223_15.0419.C16.o1.gs	Method	GENSCAN
Start	210	End	725
GI	none	Score	.89
Exons	210..266, 495..725		

Seq. No.	56218	Seq. ID	OJ000223_15.0419.C16
Gene No.	117674	Strand	-
Start	1179	End	1586
Name	OJ000223_15.0419.C16.o2.gs	Method	GENSCAN
Start	1179	End	1586
GI	none	Score	.71
Exons	1179..1389, 1579..1586		

Seq. No.	56219	Seq. ID	OJ000223_15.0419.C17
Gene No.	117675	Strand	+
Start	746	End	918
Name	OJ000223_15.0419.C17.o1.np	Method	AAT/NAP
Start	746	End	918
GI	2388565	Score	80
Exons	746..918		
GI Descrip.	(AC000098) Similar to Prunus pectinesterase (gb X95991). [Arabidopsis thaliana]		

Seq. No.	56220	Seq. ID	OJ000223_15.0419.C18
Gene No.	117676	Strand	+
Start	1	End	677
Name	OJ000223_15.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	662
GI	2388565	Score	346
Exons	1..67, 171..414, 506..662		
GI Descrip.	(AC000098) Similar to Prunus pectinesterase (gb X95991). [Arabidopsis thaliana]		

Seq. No.	56220	Seq. ID	OJ000223_15.0419.C18
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Gene No. 117676
 Start 1
 Name OJ000223_15.0419.C18.o1.gs
 Start 171
 GI none
 Exons 171..418, 506..677

Strand +
 End 677
 Method GENSCAN
 End 677
 Score .75

Seq. No. 56220
 Gene No. 117677
 Start 1947
 Name OJ000223_15.0419.C18.o2.gs
 Start 1947
 GI none
 Exons 1947..2690

Seq. ID OJ000223_15.0419.C18
 Strand +
 End 3049
 Method GENSCAN
 End 2690
 Score .94

Seq. No. 56220
 Gene No. 117677
 Start 1947
 Name OJ000223_15.0419.C18.o2.np
 Start 1950
 GI 7484991
 Exons 1950..2489, 2598..2690, 2964..3049
 GI Descrip. glycosyltransferase homolog Fl6B22.15 - Arabidopsis thaliana
 gi|3341686|gb|AAC27468.1| (AC003672) putative
 glucosyltransferase [Arabidopsis thaliana]

Seq. ID OJ000223_15.0419.C18
 Strand +
 End 3049
 Method AAT/NAP
 End 3049
 Score 572

Seq. No. 56220
 Gene No. 117678
 Start 982
 Name OJ000223_15.0419.C18.o1.gp
 Start 982
 GI 4138298
 Exons 982..1190
 GI Descrip. 4138299/emb|CAA75509| 4.0e-97 (Y15219) transcriptional activator
 [Oryza sativa subsp. indica]

Seq. ID OJ000223_15.0419.C18
 Strand -
 End 1190
 Method AAT/GAP
 End 1190
 Score 301

Seq. No. 56220
 Gene No. 117679
 Start 2100
 Name OJ000223_15.0419.C18.o3.tm
 Start 224
 GI none
 Exons 224..379, 225..377, 380..421, 506..598, 507..647

Seq. ID OJ000223_15.0419.C18
 Strand -
 End 2302
 Method TBLASTX:Maize
 End 647
 Score 170

Seq. No. 56220
 Gene No. 117679
 Start 2100
 Name OJ000223_15.0419.C18.o1.ts
 Start 287
 GI none
 Exons 287..376, 288..377, 377..412, 501..647, 506..598

Seq. ID OJ000223_15.0419.C18
 Strand -
 End 2302
 Method TBLASTX:Soybean
 End 647
 Score 104

Seq. No. 56220
 Gene No. 117679
 Start 2100
 Name OJ000223_15.0419.C18.o1.tm
 Start 1973

Seq. ID OJ000223_15.0419.C18
 Strand -
 End 2302
 Method TBLASTX:Maize
 End 2240

GI	none	Score	56
Exons	1973..2017, 2010..2240, 2012..2134		
Seq. No.	56220	Seq. ID	OJ000223_15.0419.C18
Gene No.	117679	Strand	-
Start	2100	End	2302
Name	OJ000223_15.0419.C18.o2.ts	Method	TBLASTX:Soybean
Start	2010	End	2147
GI	none	Score	195
Exons	2010..2147, 2018..2134		
Seq. No.	56220	Seq. ID	OJ000223_15.0419.C18
Gene No.	117679	Strand	-
Start	2100	End	2302
Name	OJ000223_15.0419.C18.o2.gp	Method	AAT/GAP
Start	2100	End	2302
GI	5005472	Score	334
Exons	2100..2302		
Seq. No.	56220	Seq. ID	OJ000223_15.0419.C18
Gene No.	117680	Strand	-
Start	2376	End	2689
Name	OJ000223_15.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	2376	End	2689
GI	none	Score	293
Exons	2376..2588, 2384..2686, 2390..2689		
Seq. No.	56221	Seq. ID	OJ000223_15.0419.C19
Gene No.	117681	Strand	+
Start	1	End	1413
Name	OJ000223_15.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	1413
GI	7484991	Score	293
Exons	1..193, 1336..1413		
GI Descrip.	glycosyltransferase homolog F16B22.15 - Arabidopsis thaliana gi 3341686 gb AAC27468.1 (AC003672) putative glucosyltransferase [Arabidopsis thaliana]		
Seq. No.	56221	Seq. ID	OJ000223_15.0419.C19
Gene No.	117681	Strand	+
Start	1	End	1413
Name	OJ000223_15.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	1	End	1382
GI	none	Score	322
Exons	1..192, 3..200, 3..191, 1313..1381, 1314..1382		
Seq. No.	56221	Seq. ID	OJ000223_15.0419.C19
Gene No.	117681	Strand	+
Start	1	End	1413
Name	OJ000223_15.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	1	End	193
GI	none	Score	269
Exons	1..192, 3..191, 32..193		
Seq. No.	56222	Seq. ID	OJ000223_15.0419.C21
Gene No.	117682	Strand	-
Start	149	End	3401

Name	OJ000223_15.0419.C21.o1.gs	Method	GENSCAN
Start	149	End	3058
GI	none	Score	.45
Exons	149..635, 770..828, 834..968, 1645..1740, 1868..1952, 2015..2107, 2141..2260, 2570..3058		

Seq. No.	56222	Seq. ID	OJ000223_15.0419.C21
Gene No.	117682	Strand	-
Start	149	End	3401
Name	OJ000223_15.0419.C21.o1.np	Method	AAT/NAP
Start	300	End	3401
GI	7106508	Score	66
Exons	300..635, 997..1085, 1172..1276, 3359..3401		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	56222	Seq. ID	OJ000223_15.0419.C21
Gene No.	117683	Strand	-
Start	5059	End	5262
Name	OJ000223_15.0419.C21.o2.gs	Method	GENSCAN
Start	5059	End	5262
GI	none	Score	.61
Exons	5059..5262		

Seq. No.	56223	Seq. ID	OJ000223_15.0419.C22
Gene No.	117684	Strand	-
Start	250	End	423
Name	OJ000223_15.0419.C22.o1.gs	Method	GENSCAN
Start	250	End	423
GI	none	Score	.52
Exons	250..423		

Seq. No.	56224	Seq. ID	OJ000223_15.0419.C23
Gene No.	117685	Strand	-
Start	531	End	1629
Name	OJ000223_15.0419.C23.o1.gs	Method	GENSCAN
Start	531	End	1629
GI	none	Score	.61
Exons	531..680, 938..951, 1527..1629		

Seq. No.	56225	Seq. ID	OJ000223_15.0419.C24
Gene No.	117686	Strand	+
Start	6366	End	6423
Name	OJ000223_15.0419.C24.o1.gp	Method	AAT/GAP
Start	6366	End	6423
GI	16490_1.R1084	Score	90
Exons	6366..6423		
GI Descrip.	'4584525/emb CAB40756.1 7.0e-38 (AL049607) protein phosphatase 2C-like protein [Arabidopsis thaliana]'		

Seq. No.	56225	Seq. ID	OJ000223_15.0419.C24
Gene No.	117687	Strand	+
Start	6789	End	7516
Name	OJ000223_15.0419.C24.o1.np	Method	AAT/NAP
Start	6789	End	7516
GI	6539570	Score	161
Exons	6789..6990, 7226..7292, 7492..7516		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	56225	Seq. ID	OJ000223_15.0419.C24
Gene No.	117688	Strand	-
Start	4038	End	5580
Name	OJ000223_15.0419.C24.o2.gs	Method	GENSCAN
Start	4038	End	5580
GI	none	Score	.74
Exons	4038..4228, 4233..4523, 4642..4763, 4888..4916, 5154..5211, 5513..5580		

Seq. No.	56225	Seq. ID	OJ000223_15.0419.C24
Gene No.	117689	Strand	-
Start	6796	End	7122
Name	OJ000223_15.0419.C24.o3.gs	Method	GENSCAN
Start	6796	End	7122
GI	none	Score	.52
Exons	6796..7122		

Seq. No.	56226	Seq. ID	OJ000223_15.0419.C25
Gene No.	117690	Strand	-
Start	1	End	547
Name	OJ000223_15.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	547
GI	6063557	Score	359
Exons	1..134, 373..547		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	56226	Seq. ID	OJ000223_15.0419.C25
Gene No.	117690	Strand	-
Start	1	End	547
Name	OJ000223_15.0419.C25.o1.gs	Method	GENSCAN
Start	22	End	545
GI	none	Score	.47
Exons	22..161, 416..545		

Seq. No.	56227	Seq. ID	OJ000223_15.0419.C26
Gene No.	117691	Strand	+
Start	1	End	509
Name	OJ000223_15.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	509
GI	5777617	Score	107
Exons	1..21, 348..509		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	56228	Seq. ID	OJ000223_15.0419.C27
Gene No.	117692	Strand	-
Start	201	End	270
Name	OJ000223_15.0419.C27.o1.gs	Method	GENSCAN
Start	201	End	270
GI	none	Score	.64
Exons	201..270		

Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o1.np	Method	AAT/NAP
Start	110	End	2671

GI	4680179	Score	3204
Exons	110..2671		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o6.tw	Method	TBLASTX:Wheat
Start	154	End	486
GI	none	Score	130
Exons	154..426, 175..429, 423..485, 430..486		
Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o5.tm	Method	TBLASTX:Maize
Start	169	End	327
GI	none	Score	55
Exons	169..327, 171..254, 206..322		
Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	337	End	933
GI	none	Score	69
Exons	337..426, 347..424, 423..773, 433..555, 486..773, 506..778, 631..774, 771..929, 778..924, 781..933		
Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	486	End	1112
GI	none	Score	265
Exons	486..1112, 610..1056		
Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o4.tm	Method	TBLASTX:Maize
Start	981	End	1271
GI	none	Score	236
Exons	981..1271, 985..1260		
Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o2.ts	Method	TBLASTX:Soybean
Start	1071	End	1317
GI	none	Score	171
Exons	1071..1310, 1072..1317		
Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o1.tc	Method	TBLASTX:Cress

Start	1095	End	1412
GI	none	Score	101
Exons	1095..1238, 1111..1236, 1239..1391, 1239..1412		

Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o3.tw	Method	TBLASTX:Wheat
Start	1119	End	1598
GI	none	Score	254
Exons	1119..1598, 1123..1491		

Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o2.tw	Method	TBLASTX:Wheat
Start	1599	End	2112
GI	none	Score	200
Exons	1599..2111, 1701..2048, 1768..2112		

Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o2.tm	Method	TBLASTX:Maize
Start	1686	End	2039
GI	none	Score	211
Exons	1686..2039, 1723..2037		

Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o3.ts	Method	TBLASTX:Soybean
Start	1860	End	2105
GI	none	Score	188
Exons	1860..2105		

Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o3.tm	Method	TBLASTX:Maize
Start	2076	End	2576
GI	none	Score	72
Exons	2076..2411, 2098..2250, 2397..2576, 2446..2568		

Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o5.tw	Method	TBLASTX:Wheat
Start	2118	End	2381
GI	none	Score	206
Exons	2118..2381, 2128..2370		

Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	2127	End	2522

GI	none	Score	166
Exons	2127..2486, 2128..2370, 2410..2505, 2490..2522, 2490..2522		

Seq. No.	56229	Seq. ID	OJ000223_15.0419.C28
Gene No.	117693	Strand	-
Start	110	End	2671
Name	OJ000223_15.0419.C28.o4.tw	Method	TBLASTX:Wheat
Start	2382	End	2670
GI	none	Score	120
Exons	2382..2582, 2382..2585, 2410..2586, 2589..2669, 2592..2654, 2593..2670		

Seq. No.	56230	Seq. ID	OJ000223_15.0419.C29
Gene No.	117694	Strand	-
Start	1	End	1139
Name	OJ000223_15.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	1139
GI	4539660	Score	519
Exons	1..357, 445..1139		
GI Descrip.	(AF061282) polyprotein [Sorghum bicolor]		

Seq. No.	56230	Seq. ID	OJ000223_15.0419.C29
Gene No.	117694	Strand	-
Start	1	End	1139
Name	OJ000223_15.0419.C29.o2.tw	Method	TBLASTX:Wheat
Start	2	End	260
GI	none	Score	55
Exons	2..259, 3..86, 120..260		

Seq. No.	56230	Seq. ID	OJ000223_15.0419.C29
Gene No.	117694	Strand	-
Start	1	End	1139
Name	OJ000223_15.0419.C29.o1.gs	Method	GENSCAN
Start	262	End	1013
GI	none	Score	.43
Exons	262..1013		

Seq. No.	56230	Seq. ID	OJ000223_15.0419.C29
Gene No.	117694	Strand	-
Start	1	End	1139
Name	OJ000223_15.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	625	End	1026
GI	none	Score	236
Exons	625..1026		

Seq. No.	56230	Seq. ID	OJ000223_15.0419.C29
Gene No.	117694	Strand	-
Start	1	End	1139
Name	OJ000223_15.0419.C29.o1.tw	Method	TBLASTX:Wheat
Start	682	End	1026
GI	none	Score	64
Exons	682..1026, 848..919		

Seq. No.	56231	Seq. ID	OJ000223_15.0419.C31
Gene No.	117695	Strand	-
Start	676	End	3032
Name	OJ000223_15.0419.C31.o1.gs	Method	GENSCAN

Start	676	End	3032
GI	none	Score	.91
Exons	676..811, 1062..1111, 1196..1332, 1439..1527, 2423..2530, 2656..2739, 2973..3032		

Seq. No.	56231	Seq. ID	OJ000223_15.0419.C31
Gene No.	117695	Strand	-
Start	676	End	3032
Name	OJ000223_15.0419.C31.o1.np	Method	AAT/NAP
Start	696	End	1661
GI	5730067	Score	97
Exons	696..811, 1275..1527, 1617..1661		
GI Descrip.	Snf2-related CBP activator protein gi 5106572 gb AAD39760.1 AF143946_1 (AF143946) transcriptional activator SRCAP [Homo sapiens]		

Seq. No.	56232	Seq. ID	OJ000223_15.0419.C33
Gene No.	117696	Strand	+
Start	46	End	767
Name	OJ000223_15.0419.C33.o1.gs	Method	GENSCAN
Start	46	End	767
GI	none	Score	.67
Exons	46..54, 179..293, 426..527, 730..767		

Seq. No.	56232	Seq. ID	OJ000223_15.0419.C33
Gene No.	117697	Strand	+
Start	2456	End	3246
Name	OJ000223_15.0419.C33.o2.gs	Method	GENSCAN
Start	2456	End	3246
GI	none	Score	.78
Exons	2456..2458, 3046..3246		

Seq. No.	56232	Seq. ID	OJ000223_15.0419.C33
Gene No.	117698	Strand	+
Start	4237	End	4650
Name	OJ000223_15.0419.C33.o2.gp	Method	AAT/GAP
Start	4237	End	4650
GI	4714603	Score	790
Exons	4237..4650		
GI Descrip.	4455276/emb CAB36812.1 3.0e-26 (AL035527) peptide transporter-like protein [Arabidopsis thaliana]		

Seq. No.	56232	Seq. ID	OJ000223_15.0419.C33
Gene No.	117699	Strand	-
Start	3679	End	7194
Name	OJ000223_15.0419.C33.o1.gp	Method	AAT/GAP
Start	3679	End	4223
GI	18443_1.R1084	Score	910
Exons	3679..4223		
GI Descrip.	'4455276/emb CAB36812.1 3.0e-26 (AL035527) peptide transporter-like protein [Arabidopsis thaliana]'		

Seq. No.	56232	Seq. ID	OJ000223_15.0419.C33
Gene No.	117699	Strand	-
Start	3679	End	7194
Name	OJ000223_15.0419.C33.o3.gs	Method	GENSCAN
Start	4037	End	7194

GI	none	Score	.86
Exons	4037..4916, 4990..5546, 6012..6229, 6306..6389, 6757..6931, 7161..7194		

Seq. No.	56232	Seq. ID	OJ000223_15.0419.C33
Gene No.	117699	Strand	-
Start	3679	End	7194
Name	OJ000223_15.0419.C33.o1.tw	Method	TBLASTX:Wheat
Start	4122	End	4441
GI	none	Score	144
Exons	4122..4433, 4193..4441, 4283..4435		

Seq. No.	56232	Seq. ID	OJ000223_15.0419.C33
Gene No.	117699	Strand	-
Start	3679	End	7194
Name	OJ000223_15.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	4188	End	4853
GI	none	Score	161
Exons	4188..4442, 4190..4447, 4490..4567, 4565..4696, 4709..4852, 4719..4853		

Seq. No.	56232	Seq. ID	OJ000223_15.0419.C33
Gene No.	117699	Strand	-
Start	3679	End	7194
Name	OJ000223_15.0419.C33.o1.tc	Method	TBLASTX:Cress
Start	4193	End	6844
GI	none	Score	121
Exons	4193..4447, 4194..4436, 4283..4441, 4481..4684, 4698..4841, 4709..4846, 4892..4921, 5034..5471, 5089..5145, 5260..5418, 6012..6227, 6037..6117, 6758..6844		

Seq. No.	56232	Seq. ID	OJ000223_15.0419.C33
Gene No.	117699	Strand	-
Start	3679	End	7194
Name	OJ000223_15.0419.C33.o1.ts	Method	TBLASTX:Soybean
Start	4193	End	6856
GI	none	Score	83
Exons	4193..4447, 4481..4684, 4703..4849, 5034..5159, 5220..5471, 5260..5460, 6015..6245, 6758..6856		

Seq. No.	56232	Seq. ID	OJ000223_15.0419.C33
Gene No.	117699	Strand	-
Start	3679	End	7194
Name	OJ000223_15.0419.C33.o2.tm	Method	TBLASTX:Maize
Start	5043	End	5453
GI	none	Score	96
Exons	5043..5453, 5278..5430		

Seq. No.	56233	Seq. ID	OJ000223_15.0419.C37
Gene No.	117700	Strand	+
Start	1326	End	3161
Name	OJ000223_15.0419.C37.o1.gs	Method	GENSCAN
Start	1326	End	3161
GI	none	Score	.48
Exons	1326..1471, 2864..3161		

Seq. No.	56233	Seq. ID	OJ000223_15.0419.C37
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Gene No. 117701
 Start 4140
 Name OJ000223_15.0419.C37.o2.gs
 Start 4140
 GI none
 Exons 4140..4379, 4972..5199

Strand +
 End 5199
 Method GENSCAN
 End 5199
 Score .94

Seq. No. 56233
 Gene No. 117702
 Start 6529
 Name OJ000223_15.0419.C37.o1.gp
 Start 6360
 GI none
 Exons 6360..6715

Seq. ID OJ000223_15.0419.C37
 Strand +
 End 7401
 Method AAT/GAP
 End 6715
 Score 634

Seq. No. 56233
 Gene No. 117702
 Start 6529
 Name OJ000223_15.0419.C37.o3.gs
 Start 6529
 GI none
 Exons 6529..7401

Seq. ID OJ000223_15.0419.C37
 Strand +
 End 7401
 Method GENSCAN
 End 7401
 Score .59

Seq. No. 56233
 Gene No. 117703
 Start 7516
 Name OJ000223_15.0419.C37.o2.gp
 Start 7516
 GI 4714691
 Exons 7516..7883

Seq. ID OJ000223_15.0419.C37
 Strand +
 End 7883
 Method AAT/GAP
 End 7883
 Score 682

Seq. No. 56233
 Gene No. 117704
 Start 8415
 Name OJ000223_15.0419.C37.o4.gs
 Start 8415
 GI none
 Exons 8415..8516, 8542..8595

Seq. ID OJ000223_15.0419.C37
 Strand +
 End 8595
 Method GENSCAN
 End 8595
 Score .63

Seq. No. 56233
 Gene No. 117705
 Start 20971
 Name OJ000223_15.0419.C37.o4.gp
 Start 20971
 GI 533 1.R1084
 Exons 20971..21070, 21093..21132

Seq. ID OJ000223_15.0419.C37
 Strand +
 End 21132
 Method AAT/GAP
 End 21132
 Score 169

GI Descrip. '113172/sp|P15543|ACP3_HORVU 9.0e-52 ACYL CARRIER PROTEIN III
 PRECURSOR (ACP III) >gi_100561_pir_S17928 acyl carrier protein
 3 - barley >gi_166971 (M58754) acyl carrier protein III [Hordeum
 vulgare]'

Seq. No. 56233
 Gene No. 117706
 Start 22127
 Name OJ000223_15.0419.C37.o2.np
 Start 22127
 GI 7493146

Seq. ID OJ000223_15.0419.C37
 Strand +
 End 23813
 Method AAT/NAP
 End 23813
 Score 90

Exons 22127..22153, 23498..23813
 GI Descrip. probable urea active transporter - fission yeast
 (Schizosaccharomyces pombe) gi|4106690|emb|CAA22629.1|
 (AL035065) putative urea active transporter [Schizosaccharomyces
 pombe]

Seq. No.	56233	Seq. ID	OJ000223_15.0419.C37
Gene No.	117707	Strand	-
Start	10284	End	23825
Name	OJ000223_15.0419.C37.o3.tm	Method	TBLASTX:Maize
Start	6522	End	6786
GI	none	Score	85
Exons	6522..6572, 6523..6573, 6564..6587, 6565..6612, 6705..6743, 6706..6777, 6715..6786, 6729..6785		

Seq. No.	56233	Seq. ID	OJ000223_15.0419.C37
Gene No.	117707	Strand	-
Start	10284	End	23825
Name	OJ000223_15.0419.C37.o5.gs	Method	GENSCAN
Start	10284	End	23825
GI	none	Score	.64
Exons	10284..10413, 11373..11569, 11599..11751, 12619..12815, 12895..12960, 13176..13245, 13406..13569, 14491..14743, 14843..15013, 15060..15095, 15111..15197, 15349..15371, 16821..17870, 18107..18167, 18302..18354, 18632..18718, 19418..19610, 22242..22271, 22942..23114, 23464..23677, 23733..23825		

Seq. No.	56233	Seq. ID	OJ000223_15.0419.C37
Gene No.	117707	Strand	-
Start	10284	End	23825
Name	OJ000223_15.0419.C37.o1.np	Method	AAT/NAP
Start	16741	End	17790
GI	7487850	Score	872
Exons	16741..17790		
GI Descrip.	hypothetical protein T9A21.70 - Arabidopsis thaliana gi 2832696 emb CAA16794.1 (AL021713) putative protein [Arabidopsis thaliana] gi 7268615 emb CAB78824.1 (AL161548) putative protein [Arabidopsis thaliana]		

Seq. No.	56233	Seq. ID	OJ000223_15.0419.C37
Gene No.	117707	Strand	-
Start	10284	End	23825
Name	OJ000223_15.0419.C37.o2.tm	Method	TBLASTX:Maize
Start	16763	End	17043
GI	none	Score	283
Exons	16763..17014, 16783..17016, 16785..16913, 16813..17013, 16962..17018, 17017..17043		

Seq. No.	56233	Seq. ID	OJ000223_15.0419.C37
Gene No.	117707	Strand	-
Start	10284	End	23825
Name	OJ000223_15.0419.C37.o1.ts	Method	TBLASTX:Soybean
Start	16822	End	17457
GI	none	Score	161
Exons	16822..17388, 16831..17307, 16832..17401, 17335..17457, 17354..17455		

Seq. No.	56233	Seq. ID	OJ000223_15.0419.C37
Gene No.	117707	Strand	-
Start	10284	End	23825
Name	OJ000223_15.0419.C37.o1.tc	Method	TBLASTX:Cress
Start	16882	End	17319
GI	none	Score	263
Exons	16882..17319, 16883..17311		

Seq. No.	56233	Seq. ID	OJ000223_15.0419.C37
Gene No.	117707	Strand	-
Start	10284	End	23825
Name	OJ000223_15.0419.C37.o4.tm	Method	TBLASTX:Maize
Start	17044	End	17262
GI	none	Score	118
Exons	17044..17262, 17045..17257		

Seq. No.	56233	Seq. ID	OJ000223_15.0419.C37
Gene No.	117707	Strand	-
Start	10284	End	23825
Name	OJ000223_15.0419.C37.o1.tm	Method	TBLASTX:Maize
Start	17263	End	17763
GI	none	Score	143
Exons	17263..17412, 17264..17413, 17353..17589, 17353..17580, 17390..17611, 17393..17590, 17591..17758, 17593..17763, 17635..17757		

Seq. No.	56233	Seq. ID	OJ000223_15.0419.C37
Gene No.	117707	Strand	-
Start	10284	End	23825
Name	OJ000223_15.0419.C37.o3.tc	Method	TBLASTX:Cress
Start	17335	End	17574
GI	none	Score	66
Exons	17335..17574, 17354..17512		

Seq. No.	56233	Seq. ID	OJ000223_15.0419.C37
Gene No.	117707	Strand	-
Start	10284	End	23825
Name	OJ000223_15.0419.C37.o2.ts	Method	TBLASTX:Soybean
Start	17458	End	17829
GI	none	Score	70
Exons	17458..17568, 17459..17548, 17473..17577, 17623..17799, 17635..17829, 17636..17812		

Seq. No.	56233	Seq. ID	OJ000223_15.0419.C37
Gene No.	117707	Strand	-
Start	10284	End	23825
Name	OJ000223_15.0419.C37.o2.tc	Method	TBLASTX:Cress
Start	17638	End	17835
GI	none	Score	157
Exons	17638..17835, 17660..17833		

Seq. No.	56234	Seq. ID	OJ000223_15.0419.C38
Gene No.	117708	Strand	+
Start	120	End	2741
Name	OJ000223_15.0419.C38.o1.np	Method	AAT/NAP
Start	120	End	2741

GI 4239845 Score 470
Exons 120..568, 2658..2741
GI Descrip. (AB015855) transcription factor TEIL [Nicotiana tabacum]

Seq. No. 56234 Seq. ID OJ000223_15.0419.C38
Gene No. 117708 Strand +
Start 120 End 2741
Name OJ000223_15.0419.C38.o1.gs Method GENSCAN
Start 150 End 2641
GI none Score .75
Exons 150..336, 372..736, 1071..1161, 1660..1744, 1810..2371,
2528..2641

Seq. No. 56234 Seq. ID OJ000223_15.0419.C38
Gene No. 117709 Strand -
Start 3221 End 3923
Name OJ000223_15.0419.C38.o1.tm Method TBLASTX:Maize
Start 110 End 505
GI none Score 122
Exons 110..217, 123..311, 125..310, 234..311, 308..364, 339..410,
367..504, 368..505

Seq. No. 56234 Seq. ID OJ000223_15.0419.C38
Gene No. 117709 Strand -
Start 3221 End 3923
Name OJ000223_15.0419.C38.o1.ts Method TBLASTX:Soybean
Start 110 End 505
GI none Score 64
Exons 110..217, 123..317, 125..310, 308..367, 338..454, 373..504,
374..505

Seq. No. 56234 Seq. ID OJ000223_15.0419.C38
Gene No. 117709 Strand -
Start 3221 End 3923
Name OJ000223_15.0419.C38.o1.tc Method TBLASTX:Cress
Start 123 End 505
GI none Score 301
Exons 123..311, 125..298, 308..505, 373..504

Seq. No. 56234 Seq. ID OJ000223_15.0419.C38
Gene No. 117709 Strand -
Start 3221 End 3923
Name OJ000223_15.0419.C38.o2.gs Method GENSCAN
Start 3221 End 3923
GI none Score .79
Exons 3221..3712, 3729..3923

Seq. No. 56235 Seq. ID OJ000223_15.0419.C39
Gene No. 117710 Strand +
Start 343 End 1802
Name OJ000223_15.0419.C39.o1.gs Method GENSCAN
Start 343 End 1802
GI none Score .67
Exons 343..650, 688..800, 1387..1419, 1698..1802

Seq. No. 56235 Seq. ID OJ000223_15.0419.C39
Gene No. 117710 Strand +

Start	343	End	1802
Name	OJ000223_15.0419.C39.ol.tc	Method	TBLASTX:Cress
Start	524	End	1774
GI	none	Score	125
Exons	524..643, 752..811, 1178..1231, 1675..1773, 1675..1749, 1676..1774		

Seq. No.	56236	Seq. ID	OJ000223_15.0419.C43
Gene No.	117711	Strand	+
Start	384	End	634
Name	OJ000223_15.0419.C43.ol.gs	Method	GENSCAN
Start	384	End	634
GI	none	Score	.49
Exons	384..446, 548..634		

Seq. No.	56236	Seq. ID	OJ000223_15.0419.C43
Gene No.	117712	Strand	-
Start	568	End	711
Name	OJ000223_15.0419.C43.ol.np	Method	AAT/NAP
Start	568	End	711
GI	7248412	Score	152
Exons	568..711		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	56237	Seq. ID	OJ000223_15.0419.C44
Gene No.	117713	Strand	+
Start	186	End	478
Name	OJ000223_15.0419.C44.ol.gs	Method	GENSCAN
Start	186	End	478
GI	none	Score	.65
Exons	186..478		

Seq. No.	56238	Seq. ID	OJ000323_18.0419.C2
Gene No.	117714	Strand	+
Start	665	End	1448
Name	OJ000323_18.0419.C2.ol.gp	Method	AAT/GAP
Start	665	End	1448
GI	none	Score	1231
Exons	665..1025, 1103..1448		

Seq. No.	56238	Seq. ID	OJ000323_18.0419.C2
Gene No.	117715	Strand	+
Start	2124	End	2348
Name	OJ000323_18.0419.C2.o2.gs	Method	GENSCAN
Start	2124	End	2348
GI	none	Score	1
Exons	2124..2348		

Seq. No.	56238	Seq. ID	OJ000323_18.0419.C2
Gene No.	117716	Strand	+
Start	2823	End	4503
Name	OJ000323_18.0419.C2.o3.gs	Method	GENSCAN
Start	2823	End	4503
GI	none	Score	.84
Exons	2823..3020, 3673..3891, 3978..4180, 4398..4503		

Seq. No.	56238	Seq. ID	OJ000323_18.0419.C2
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Gene No.	117716	Strand	+
Start	2823	End	4503
Name	OJ000323_18.0419.C2.o2.gp	Method	AAT/GAP
Start	3805	End	4357
GI	none	Score	793
Exons	3805..3891, 3978..4357		
Seq. No.	56238	Seq. ID	OJ000323_18.0419.C2
Gene No.	117717	Strand	+
Start	7507	End	9538
Name	OJ000323_18.0419.C2.o3.gp	Method	AAT/GAP
Start	7453	End	9538
GI	598 4.R1084	Score	1171
Exons	7453..7609, 7709..7898, 8876..8942, 9306..9538		
GI Descrip.	'485518/pir S33633 6.0e-70 ubiquitin / ribosomal protein CEP52 - rice >gi_303857_dbj_BAA02154_ (D12629) ubiquitin/ribosomal polyprotein [Oryza sativa]'		
Seq. No.	56238	Seq. ID	OJ000323_18.0419.C2
Gene No.	117717	Strand	+
Start	7507	End	9538
Name	OJ000323_18.0419.C2.o2.np	Method	AAT/NAP
Start	7507	End	9332
GI	485518	Score	577
Exons	7507..7609, 7709..7898, 8876..8942, 9306..9332		
GI Descrip.	ubiquitin / ribosomal protein CEP52 - rice gi 303857 dbj BAA02154.1 (D12629) ubiquitin/ribosomal polyprotein [Oryza sativa]		
Seq. No.	56238	Seq. ID	OJ000323_18.0419.C2
Gene No.	117717	Strand	+
Start	7507	End	9538
Name	OJ000323_18.0419.C2.o5.gs	Method	GENSCAN
Start	7507	End	9335
GI	none	Score	.94
Exons	7507..7609, 7709..7898, 8876..8942, 9306..9335		
Seq. No.	56238	Seq. ID	OJ000323_18.0419.C2
Gene No.	117718	Strand	-
Start	686	End	1512
Name	OJ000323_18.0419.C2.o1.gs	Method	GENSCAN
Start	686	End	1512
GI	none	Score	.41
Exons	686..842, 1502..1512		
Seq. No.	56238	Seq. ID	OJ000323_18.0419.C2
Gene No.	117719	Strand	-
Start	3170	End	6493
Name	OJ000323_18.0419.C2.o1.np	Method	AAT/NAP
Start	3170	End	6493
GI	4314389	Score	223
Exons	3170..3195, 5707..5825, 6321..6493		
GI Descrip.	(AC006232) putative CCAAT-binding transcription factor subunit [Arabidopsis thaliana]		
Seq. No.	56238	Seq. ID	OJ000323_18.0419.C2
Gene No.	117719	Strand	-

Start	3170	End	6493
Name	OJ000323_18.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	3837	End	4213
GI	none	Score	60
Exons	3837..3887, 3837..3950, 3844..3939, 3945..4094, 3946..4098, 3978..4211, 4024..4098, 4142..4213, 4148..4210		

Seq. No.	56238	Seq. ID	OJ000323_18.0419.C2
Gene No.	117719	Strand	-
Start	3170	End	6493
Name	OJ000323_18.0419.C2.o4.gs	Method	GENSCAN
Start	5216	End	6487
GI	none	Score	.81
Exons	5216..5352, 5707..5825, 6321..6487		

Seq. No.	56238	Seq. ID	OJ000323_18.0419.C2
Gene No.	117720	Strand	-
Start	7464	End	9410
Name	OJ000323_18.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	7464	End	8947
GI	none	Score	156
Exons	7464..7610, 7504..7611, 7504..7566, 7541..7612, 7693..7899, 7707..7901, 8850..8945, 8867..8947		

Seq. No.	56238	Seq. ID	OJ000323_18.0419.C2
Gene No.	117720	Strand	-
Start	7464	End	9410
Name	OJ000323_18.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	7503	End	9410
GI	none	Score	188
Exons	7503..7613, 7504..7566, 7541..7612, 7693..7899, 7707..7901, 8850..8945, 8867..8947, 8873..8947, 9303..9410		

Seq. No.	56238	Seq. ID	OJ000323_18.0419.C2
Gene No.	117720	Strand	-
Start	7464	End	9410
Name	OJ000323_18.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	7504	End	8947
GI	none	Score	175
Exons	7504..7611, 7507..7566, 7550..7609, 7693..7899, 7707..7901, 8850..8945, 8867..8947		

Seq. No.	56238	Seq. ID	OJ000323_18.0419.C2
Gene No.	117720	Strand	-
Start	7464	End	9410
Name	OJ000323_18.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	7504	End	7901
GI	none	Score	175
Exons	7504..7611, 7504..7560, 7507..7611, 7507..7611, 7507..7560, 7507..7560, 7541..7606, 7541..7606, 7541..7606, 7677..7733, 7693..7836, 7693..7836, 7693..7899, 7707..7901, 7707..7835, 7707..7835, 7854..7901		

Seq. No.	56239	Seq. ID	OJ000323_18.0419.C3
Gene No.	117721	Strand	-
Start	148	End	891
Name	OJ000323_18.0419.C3.o1.gs	Method	GENSCAN

Start 148
GI none
Exons 148..891

End 891
Score .55

Seq. No. 56239
Gene No. 117721
Start 148
Name OJ000323_18.0419.C3.o1.np
Start 247
GI 6671962
Exons 247..747
GI Descrip. (AC013454) germin-like protein [Arabidopsis thaliana]
gi|6714408|gb|AAF26097.1|AC012393_23 (AC012393) germin-like
protein [Arabidopsis thaliana]

Seq. ID OJ000323_18.0419.C3
Strand -
End 891
Method AAT/NAP
End 747
Score 209

Seq. No. 56239
Gene No. 117722
Start 2553
Name OJ000323_18.0419.C3.o1.ts
Start 346
GI none
Exons 346..435, 430..501, 571..690,

Seq. ID OJ000323_18.0419.C3
Strand -
End 3023
Method TBLASTX:Soybean
End 2984
Score 117
2706..2984, 2707..2901

Seq. No. 56239
Gene No. 117722
Start 2553
Name OJ000323_18.0419.C3.o1.tc
Start 349
GI none
Exons 349..435, 430..501, 571..747,

Seq. ID OJ000323_18.0419.C3
Strand -
End 3023
Method TBLASTX:Cress
End 2985
Score 135
2706..2984, 2719..2985

Seq. No. 56239
Gene No. 117722
Start 2553
Name OJ000323_18.0419.C3.o1.tm
Start 430
GI none
Exons 430..501, 431..502, 571..720,

Seq. ID OJ000323_18.0419.C3
Strand -
End 3023
Method TBLASTX:Maize
End 3000
Score 63
2568..2633, 2706..2999, 2719..3000

Seq. No. 56239
Gene No. 117722
Start 2553
Name OJ000323_18.0419.C3.o1.tw
Start 469
GI none
Exons 469..507, 523..573, 571..693, 578..694, 734..820, 736..813,

Seq. ID OJ000323_18.0419.C3
Strand -
End 3023
Method TBLASTX:Wheat
End 2994
Score 57
2769..2990, 2770..2991, 2908..2994

Seq. No. 56239
Gene No. 117722
Start 2553
Name OJ000323_18.0419.C3.o2.gs
Start 2553
GI none
Exons 2553..2969

Seq. ID OJ000323_18.0419.C3
Strand -
End 3023
Method GENSCAN
End 2969
Score 1

Seq. No. 56239
Seq. ID OJ000323_18.0419.C3

Gene No.	117722	Strand	-
Start	2553	End	3023
Name	OJ000323_18.0419.C3.o2.np	Method	AAT/NAP
Start	2559	End	3023
GI	5042461	Score	317
Exons	2559..3023		
GI Descrip.	(AC007789) putative oxalate oxidase (germin protein) [Oryza sativa]		

Seq. No.	56240	Seq. ID	OJ000323_18.0419.C5
Gene No.	117723	Strand	-
Start	414	End	1734
Name	OJ000323_18.0419.C5.o1.gs	Method	GENSCAN
Start	414	End	1734
GI	none	Score	.85
Exons	414..430, 538..1504, 1582..1734		

Seq. No.	56241	Seq. ID	OJ000323_18.0419.C6
Gene No.	117724	Strand	+
Start	286	End	5352
Name	OJ000323_18.0419.C6.o1.gs	Method	GENSCAN
Start	286	End	2712
GI	none	Score	.99
Exons	286..2712		

Seq. No.	56241	Seq. ID	OJ000323_18.0419.C6
Gene No.	117724	Strand	+
Start	286	End	5352
Name	OJ000323_18.0419.C6.o1.np	Method	AAT/NAP
Start	286	End	5352
GI	7228457	Score	7433
Exons	286..652, 714..2649, 2713..3547, 3670..4821, 4888..5352		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	56241	Seq. ID	OJ000323_18.0419.C6
Gene No.	117724	Strand	+
Start	286	End	5352
Name	OJ000323_18.0419.C6.o5.tw	Method	TBLASTX:Wheat
Start	940	End	1332
GI	none	Score	58
Exons	940..987, 994..1092, 999..1091, 1059..1298, 1075..1332		

Seq. No.	56241	Seq. ID	OJ000323_18.0419.C6
Gene No.	117724	Strand	+
Start	286	End	5352
Name	OJ000323_18.0419.C6.o3.tm	Method	TBLASTX:Maize
Start	945	End	1230
GI	none	Score	197
Exons	945..1229, 982..1230		

Seq. No.	56241	Seq. ID	OJ000323_18.0419.C6
Gene No.	117724	Strand	+
Start	286	End	5352
Name	OJ000323_18.0419.C6.o3.tw	Method	TBLASTX:Wheat
Start	2070	End	2529

GI none Score 407
Exons 2070...2207, 2071...2529, 2265...2525

Seq. No. 56241 Seq. ID OJ000323_18.0419.C6
Gene No. 117724 Strand +
Start 286 End 5352
Name OJ000323_18.0419.C6.o1.tw Method TBLASTX:Wheat
Start 2720 End 3183
GI none Score 214
Exons 2720...3163, 2721...3176, 2722...3183

Seq. No. 56241 Seq. ID OJ000323_18.0419.C6
Gene No. 117724 Strand +
Start 286 End 5352
Name OJ000323_18.0419.C6.o3.ts Method TBLASTX:Soybean
Start 2761 End 3126
GI none Score 106
Exons 2761...2985, 2992...3126

Seq. No. 56241 Seq. ID OJ000323_18.0419.C6
Gene No. 117724 Strand +
Start 286 End 5352
Name OJ000323_18.0419.C6.o2.gs Method GENSCAN
Start 2776 End 5349
GI none Score 1
Exons 2776...5349

Seq. No. 56241 Seq. ID OJ000323_18.0419.C6
Gene No. 117724 Strand +
Start 286 End 5352
Name OJ000323_18.0419.C6.o1.tm Method TBLASTX:Maize
Start 2851 End 3207
GI none Score 397
Exons 2851...3207, 2886...3197, 3091...3207

Seq. No. 56241 Seq. ID OJ000323_18.0419.C6
Gene No. 117724 Strand +
Start 286 End 5352
Name OJ000323_18.0419.C6.o2.tm Method TBLASTX:Maize
Start 3234 End 3618
GI none Score 361
Exons 3234...3599, 3235...3618

Seq. No. 56241 Seq. ID OJ000323_18.0419.C6
Gene No. 117724 Strand +
Start 286 End 5352
Name OJ000323_18.0419.C6.o2.tw Method TBLASTX:Wheat
Start 3291 End 3716
GI none Score 490
Exons 3291...3716, 3292...3711

Seq. No. 56241 Seq. ID OJ000323_18.0419.C6
Gene No. 117724 Strand +
Start 286 End 5352
Name OJ000323_18.0419.C6.o1.ts Method TBLASTX:Soybean
Start 3370 End 3741
GI none Score 275

Exons 3370..3741, 3387..3530

Seq. No.	56241	Seq. ID	OJ000323_18.0419.C6
Gene No.	117724	Strand	+
Start	286	End	5352
Name	OJ000323_18.0419.C6.o4.tw	Method	TBLASTX:Wheat
Start	4342	End	4800
GI	none	Score	234
Exons	4342..4590, 4366..4590, 4431..4604, 4651..4800, 4660..4797, 4662..4799		

Seq. No.	56241	Seq. ID	OJ000323_18.0419.C6
Gene No.	117724	Strand	+
Start	286	End	5352
Name	OJ000323_18.0419.C6.o2.ts	Method	TBLASTX:Soybean
Start	4489	End	5055
GI	5666795	Score	68
Exons	4489..4587, 4663..4800, 4855..5055		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	56241	Seq. ID	OJ000323_18.0419.C6
Gene No.	117724	Strand	+
Start	286	End	5352
Name	OJ000323_18.0419.C6.o6.tw	Method	TBLASTX:Wheat
Start	4803	End	5115
GI	none	Score	185
Exons	4803..4901, 4855..5115		

Seq. No.	56242	Seq. ID	OJ000323_18.0419.C7
Gene No.	117725	Strand	+
Start	1	End	988
Name	OJ000323_18.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	985
GI	7228457	Score	1654
Exons	1..985		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	56242	Seq. ID	OJ000323_18.0419.C7
Gene No.	117725	Strand	+
Start	1	End	988
Name	OJ000323_18.0419.C7.o1.gs	Method	GENSCAN
Start	61	End	988
GI	none	Score	.94
Exons	61..988		

Seq. No.	56242	Seq. ID	OJ000323_18.0419.C7
Gene No.	117726	Strand	-
Start	1634	End	6828
Name	OJ000323_18.0419.C7.o2.gs	Method	GENSCAN
Start	1634	End	4906
GI	none	Score	.79
Exons	1634..2294, 2334..3545, 3645..4373, 4443..4710, 4795..4906		

Seq. No.	56242	Seq. ID	OJ000323_18.0419.C7
Gene No.	117726	Strand	-

Start	1634	End	6828
Name	OJ000323_18.0419.C7.o2.np	Method	AAT/NAP
Start	1637	End	4906
GI	5803259	Score	4552
Exons	1637..3545, 3645..4906		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	56242	Seq. ID	OJ000323_18.0419.C7
Gene No.	117726	Strand	-
Start	1634	End	6828
Name	OJ000323_18.0419.C7.o4.np	Method	AAT/NAP
Start	4109	End	6580
GI	5922623	Score	206
Exons	4109..4136, 5724..5799, 5966..6086, 6472..6580		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	56242	Seq. ID	OJ000323_18.0419.C7
Gene No.	117726	Strand	-
Start	1634	End	6828
Name	OJ000323_18.0419.C7.o3.np	Method	AAT/NAP
Start	5544	End	6828
GI	7523512	Score	99
Exons	5544..5672, 6805..6828		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	56242	Seq. ID	OJ000323_18.0419.C7
Gene No.	117727	Strand	-
Start	6956	End	7010
Name	OJ000323_18.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	5	End	373
GI	none	Score	342
Exons	5..373, 94..342		

Seq. No.	56242	Seq. ID	OJ000323_18.0419.C7
Gene No.	117727	Strand	-
Start	6956	End	7010
Name	OJ000323_18.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	17	End	391
GI	none	Score	183
Exons	17..280, 278..391		

Seq. No.	56242	Seq. ID	OJ000323_18.0419.C7
Gene No.	117727	Strand	-
Start	6956	End	7010
Name	OJ000323_18.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	374	End	976
GI	none	Score	270
Exons	374..664, 378..449, 379..657, 512..790, 850..972, 851..976		

Seq. No.	56242	Seq. ID	OJ000323_18.0419.C7
Gene No.	117727	Strand	-
Start	6956	End	7010
Name	OJ000323_18.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	845	End	985
GI	none	Score	182

Exons 845..985, 850..984

Seq. No.	56242	Seq. ID	OJ000323_18.0419.C7
Gene No.	117727	Strand	-
Start	6956	End	7010
Name	OJ000323_18.0419.C7.o1.gp	Method	AAT/GAP
Start	6956	End	7010
GI	16490_1.R1084	Score	90
Exons	6956..7010		
GI Descrip.	'4584525/emb CAB40756.1 7.0e-38 (AL049607) protein phosphatase 2C-like protein [Arabidopsis thaliana]'		

Seq. No.	56243	Seq. ID	OJ000323_18.0419.C8
Gene No.	117728	Strand	-
Start	1	End	2115
Name	OJ000323_18.0419.C8.o1.gp	Method	AAT/GAP
Start	1	End	1236
GI	none	Score	1137
Exons	1..213, 846..1236		

Seq. No.	56243	Seq. ID	OJ000323_18.0419.C8
Gene No.	117728	Strand	-
Start	1	End	2115
Name	OJ000323_18.0419.C8.o1.gs	Method	GENSCAN
Start	846	End	2115
GI	none	Score	.52
Exons	846..2115		

Seq. No.	56244	Seq. ID	OJ000323_18.0419.C9
Gene No.	117729	Strand	-
Start	752	End	933
Name	OJ000323_18.0419.C9.o1.gs	Method	GENSCAN
Start	752	End	933
GI	none	Score	.99
Exons	752..933		

Seq. No.	56245	Seq. ID	OJ000323_18.0419.C11
Gene No.	117730	Strand	+
Start	1	End	491
Name	OJ000323_18.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	485
GI	5042461	Score	321
Exons	1..485		
GI Descrip.	(AC007789) putative oxalate oxidase (germin protein) [Oryza sativa]		

Seq. No.	56245	Seq. ID	OJ000323_18.0419.C11
Gene No.	117730	Strand	+
Start	1	End	491
Name	OJ000323_18.0419.C11.o1.gs	Method	GENSCAN
Start	27	End	491
GI	none	Score	.44
Exons	27..491		

Seq. No.	56245	Seq. ID	OJ000323_18.0419.C11
Gene No.	117730	Strand	+
Start	1	End	491

Name	OJ000323_18.0419.C11.ol.tw	Method	TBLASTX:Wheat
Start	32	End	303
GI	none	Score	89
Exons	32..130, 32..274, 54..275, 265..303		
Seq. No.	56245	Seq. ID	OJ000323_18.0419.C11
Gene No.	117730	Strand	+
Start	1	End	491
Name	OJ000323_18.0419.C11.ol.tm	Method	TBLASTX:Maize
Start	47	End	415
GI	none	Score	256
Exons	47..415, 48..392		
Seq. No.	56245	Seq. ID	OJ000323_18.0419.C11
Gene No.	117730	Strand	+
Start	1	End	491
Name	OJ000323_18.0419.C11.ol.tc	Method	TBLASTX:Cress
Start	59	End	392
GI	none	Score	254
Exons	59..391, 60..392		
Seq. No.	56245	Seq. ID	OJ000323_18.0419.C11
Gene No.	117730	Strand	+
Start	1	End	491
Name	OJ000323_18.0419.C11.ol.ts	Method	TBLASTX:Soybean
Start	60	End	389
GI	none	Score	240
Exons	60..389, 146..370		
Seq. No.	56246	Seq. ID	OJ000323_18.0419.C14
Gene No.	117731	Strand	+
Start	767	End	901
Name	OJ000323_18.0419.C14.ol.gs	Method	GENSCAN
Start	767	End	901
GI	none	Score	.43
Exons	767..901		
Seq. No.	56246	Seq. ID	OJ000323_18.0419.C14
Gene No.	117732	Strand	-
Start	740	End	1595
Name	OJ000323_18.0419.C14.ol.gp	Method	AAT/GAP
Start	740	End	1595
GI	26545_3.R1084	Score	437
Exons	740..895, 1512..1595		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		
Seq. No.	56246	Seq. ID	OJ000323_18.0419.C14
Gene No.	117732	Strand	-
Start	740	End	1595
Name	OJ000323_18.0419.C14.ol.np	Method	AAT/NAP
Start	785	End	1595
GI	4567232	Score	212
Exons	785..895, 1512..1595		
GI Descrip.	(AC007119) 40S ribosomal protein S25 [Arabidopsis thaliana]		
Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16

Gene No.	117733	Strand	+
Start	1558	End	3896
Name	OJ000323_18.0419.C16.o1.np	Method	AAT/NAP
Start	1558	End	3650
GI	7340646	Score	275
Exons	1558..1583, 2799..3054, 3141..3650		
GI Descrip.	(AL162506) putative protein [Arabidopsis thaliana]		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117733	Strand	+
Start	1558	End	3896
Name	OJ000323_18.0419.C16.o1.gs	Method	GENSCAN
Start	2761	End	3650
GI	none	Score	1
Exons	2761..3054, 3138..3650		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117733	Strand	+
Start	1558	End	3896
Name	OJ000323_18.0419.C16.o3.gp	Method	AAT/GAP
Start	3372	End	3896
GI	5667612	Score	998
Exons	3372..3896		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117734	Strand	+
Start	4059	End	4440
Name	OJ000323_18.0419.C16.o4.gp	Method	AAT/GAP
Start	4059	End	4440
GI	none	Score	740
Exons	4059..4440		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117735	Strand	-
Start	2739	End	8798
Name	OJ000323_18.0419.C16.o2.np	Method	AAT/NAP
Start	2739	End	8709
GI	7219910	Score	652
Exons	2739..2829, 6385..6594, 6643..6989, 7078..7207, 7256..7475, 7600..7851, 7999..8283, 8602..8709		
GI Descrip.	HIR (histone cell cycle regulation defective, <i>S. cerevisiae</i>) homolog A; TUP-like enhancer of split 1; DiGeorge critical region gene 1 gi 1708202 sp P54198 HIRA HUMAN HIRA PROTEIN (TUP1 LIKE ENHANCER OF SPLIT PROTEIN 1) gi 2135189 pir I37465 HIRA protein - human gi 2135348 pir S58177 HIRA protein - human gi 927419 emb CAA61979.1 (X89887) HIRA [Homo sapiens] gi 10174		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117735	Strand	-
Start	2739	End	8798
Name	OJ000323_18.0419.C16.o2.gp	Method	AAT/GAP
Start	2791	End	3089
GI	62655_1.R1084	Score	455
Exons	2791..3089		
GI Descrip.	'4678342/emb CAB41152.1 6.0e-13 (AL049659) lipase-like protein. [Arabidopsis thaliana]'		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117735	Strand	-
Start	2739	End	8798
Name	OJ000323_18.0419.C16.o2.gs	Method	GENSCAN
Start	4392	End	8709
GI	none	Score	.82
Exons	4392..4601, 4707..4827, 5021..5143, 5268..5502, 5608..5818, 5996..6989, 7078..7400, 7600..7851, 7999..8274, 8602..8709		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117735	Strand	-
Start	2739	End	8798
Name	OJ000323_18.0419.C16.o5.gp	Method	AAT/GAP
Start	5041	End	5508
GI	3768300	Score	614
Exons	5041..5143, 5268..5508		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117735	Strand	-
Start	2739	End	8798
Name	OJ000323_18.0419.C16.o6.gp	Method	AAT/GAP
Start	6555	End	6840
GI	2312796	Score	462
Exons	6555..6840		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117735	Strand	-
Start	2739	End	8798
Name	OJ000323_18.0419.C16.o7.gp	Method	AAT/GAP
Start	7776	End	8798
GI	uC-osrocyp004g12a1	Score	1014
Exons	7776..7852, 8001..8274, 8602..8798		
GI Descrip.	'1708202/sp P54198 HIRA HUMAN 2.0e-31 HIRA PROTEIN (TUP1 LIKE ENHANCER OF SPLIT PROTEIN 1) >gi_2135189_pir_I37465 gene HIRA protein - human >gi_2135348_pir_S58177 HIRA protein - human >gi_927419_emb_CAA61979 (X89887) HIRA [Homo sapiens] >gi_1017419_emb_CAA57436 (X81844) HIRA [Homo sapiens] >gi_1589055_prf_2210253A HIRA protein [Mus musculus]'		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117736	Strand	-
Start	10372	End	11298
Name	OJ000323_18.0419.C16.o4.tm	Method	TBLASTX:Maize
Start	3279	End	3481
GI	none	Score	170
Exons	3279..3434, 3281..3442, 3425..3481, 3426..3479		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117736	Strand	-
Start	10372	End	11298
Name	OJ000323_18.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	4467	End	6124
GI	none	Score	158
Exons	4467..4601, 4468..4602, 4479..4610, 4652..4828, 4702..4866, 4707..4829, 4760..4837, 5006..5146, 5020..5145, 5267..5503, 5268..5504, 5268..5504, 5269..5505, 5552..5824, 5607..5819, 5627..5821, 5991..6122, 5993..6124, 5994..6119, 5995..6123		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117736	Strand	-
Start	10372	End	11298
Name	OJ000323_18.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	4467	End	5103
GI	none	Score	68
Exons	4467..4601, 4467..4601, 4468..4602, 4510..4605, 4711..4749, 4735..4863, 4746..4829, 4760..4876, 5006..5098, 5020..5103		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117736	Strand	-
Start	10372	End	11298
Name	OJ000323_18.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	5730	End	6209
GI	none	Score	128
Exons	5730..5819, 5730..5822, 5731..5820, 5732..5824, 5991..6206, 5993..6208, 5994..6209		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117736	Strand	-
Start	10372	End	11298
Name	OJ000323_18.0419.C16.o3.tm	Method	TBLASTX:Maize
Start	6127	End	6412
GI	none	Score	174
Exons	6127..6360, 6132..6389, 6132..6410, 6140..6412, 6140..6412		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117736	Strand	-
Start	10372	End	11298
Name	OJ000323_18.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	10372	End	11297
GI	none	Score	67
Exons	10372..10461, 10373..10453, 10501..10614, 10681..10881, 11015..11182, 11034..11171, 11213..11296, 11220..11297		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117736	Strand	-
Start	10372	End	11298
Name	OJ000323_18.0419.C16.o3.gs	Method	GENSCAN
Start	10372	End	11230
GI	none	Score	.94
Exons	10372..10938, 11012..11230		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117736	Strand	-
Start	10372	End	11298
Name	OJ000323_18.0419.C16.o3.np	Method	AAT/NAP
Start	10375	End	11298
GI	1491615	Score	577
Exons	10375..10938, 11012..11298		
GI Descrip.	(X99923) male sterility 2-like protein [Arabidopsis thaliana]		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117736	Strand	-
Start	10372	End	11298
Name	OJ000323_18.0419.C16.o2.tm	Method	TBLASTX:Maize

Start	10379	End	11296
GI	none	Score	94
Exons	10379..10459, 10384..10506, 10495..10623, 10502..10597, 10681..10872, 10712..10861, 10886..10978, 11013..11171, 11015..11173, 11190..11264, 11192..11266, 11212..11277, 11267..11296		

Seq. No.	56247	Seq. ID	OJ000323_18.0419.C16
Gene No.	117736	Strand	-
Start	10372	End	11298
Name	OJ000323_18.0419.C16.ol.ts	Method	TBLASTX:Soybean
Start	10381	End	11297
GI	none	Score	63
Exons	10381..10521, 10388..10456, 10498..10626, 10508..10585, 10681..10872, 11015..11173, 11016..11168, 11207..11296, 11220..11297		

Seq. No.	56248	Seq. ID	OJ000323_18.0419.C17
Gene No.	117737	Strand	-
Start	1	End	1512
Name	OJ000323_18.0419.C17.ol.np	Method	AAT/NAP
Start	1	End	1512
GI	5020215	Score	140
Exons	1..189, 276..495, 1478..1512		
GI Descrip.	(AF149917) acyl CoA reductase [Simmondsia chinensis] gi 5020217 gb AAD38040.1 AF149918_1 (AF149918) acyl CoA reductase [synthetic construct]		

Seq. No.	56248	Seq. ID	OJ000323_18.0419.C17
Gene No.	117737	Strand	-
Start	1	End	1512
Name	OJ000323_18.0419.C17.ol.tm	Method	TBLASTX:Maize
Start	43	End	478
GI	none	Score	101
Exons	43..195, 48..191, 252..476, 273..476, 275..478		

Seq. No.	56248	Seq. ID	OJ000323_18.0419.C17
Gene No.	117737	Strand	-
Start	1	End	1512
Name	OJ000323_18.0419.C17.ol.tc	Method	TBLASTX:Cress
Start	48	End	1217
GI	none	Score	64
Exons	48..191, 84..188, 91..207, 261..464, 275..478, 1149..1217		

Seq. No.	56248	Seq. ID	OJ000323_18.0419.C17
Gene No.	117737	Strand	-
Start	1	End	1512
Name	OJ000323_18.0419.C17.ol.gp	Method	AAT/GAP
Start	84	End	440
GI	uC-osroM202025e08b1	Score	477
Exons	84..189, 276..440		
GI Descrip.	'5020215/gb AAD38039.1 AF149917_1 6.0e-32 (AF149917) acyl CoA reductase [Simmondsia chinensis] >gi_5020217_gb AAD38040.1 AF149918_1 (AF149918) acyl CoA reductase [synthetic construct]'		

Seq. No.	56248	Seq. ID	OJ000323_18.0419.C17
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Gene No. 117737
 Start 1
 Name OJ000323_18.0419.C17.o1.gs
 Start 89
 GI none
 Exons 89..243, 276..493

Strand -
 End 1512
 Method GENSCAN
 End 493
 Score .77

Seq. No. 56248
 Gene No. 117737
 Start 1
 Name OJ000323_18.0419.C17.o1.ts
 Start 90
 GI none
 Exons 90..191, 91..195, 276..314, 278..478

Seq. ID OJ000323_18.0419.C17
 Strand -
 End 1512
 Method TBLASTX:Soybean
 End 478
 Score 70

Seq. No. 56249
 Gene No. 117738
 Start 135
 Name OJ000323_18.0419.C18.o1.tc
 Start 130
 GI none
 Exons 130..207, 134..220, 952..1170, 953..1159, 1105..1170, 1431..1472

Seq. ID OJ000323_18.0419.C18
 Strand -
 End 1479
 Method TBLASTX:Cress
 End 1472
 Score 74

Seq. No. 56249
 Gene No. 117738
 Start 135
 Name OJ000323_18.0419.C18.o1.tm
 Start 130
 GI none
 Exons 130..225, 133..216, 134..223, 241..354, 266..334, 607..657, 610..666, 611..664, 942..1025, 946..1026, 947..1027, 1018..1128, 1028..1132, 1032..1133, 1032..1133, 1033..1134

Seq. ID OJ000323_18.0419.C18
 Strand -
 End 1479
 Method TBLASTX:Maize
 End 1134
 Score 122

Seq. No. 56249
 Gene No. 117738
 Start 135
 Name OJ000323_18.0419.C18.o1.gs
 Start 135
 GI none
 Exons 135..353, 612..710, 1432..1468

Seq. ID OJ000323_18.0419.C18
 Strand -
 End 1479
 Method GENSCAN
 End 1468
 Score .93

Seq. No. 56249
 Gene No. 117738
 Start 135
 Name OJ000323_18.0419.C18.o1.np
 Start 948
 GI 4193948
 Exons 948..1156, 1432..1479
 GI Descrip. (AF110518) ethylene-inducible CTR1-like protein kinase; ethylene and fruit ripening inducible CTR1-like protein kinase; TCTR1 [Lycopersicon esculentum]

Seq. ID OJ000323_18.0419.C18
 Strand -
 End 1479
 Method AAT/NAP
 End 1479
 Score 229

Seq. No. 56249
 Gene No. 117738
 Start 135
 Name OJ000323_18.0419.C18.o1.ts
 Start 949

Seq. ID OJ000323_18.0419.C18
 Strand -
 End 1479
 Method TBLASTX:Soybean
 End 1146

GI	none	Score	44
Exons	949..1062, 952..1146, 977..1144, 1090..1146		

Seq. No.	56250	Seq. ID	OJ000323_18.0419.C19
Gene No.	117739	Strand	-
Start	74	End	469
Name	OJ000323_18.0419.C19.ol.gs	Method	GENSCAN
Start	74	End	469
GI	none	Score	.69
Exons	74..469		

Seq. No.	56251	Seq. ID	OJ000323_18.0419.C20
Gene No.	117740	Strand	+
Start	570	End	1218
Name	OJ000323_18.0419.C20.ol.gs	Method	GENSCAN
Start	570	End	1218
GI	none	Score	.56
Exons	570..621, 650..980, 1060..1218		

Seq. No.	56252	Seq. ID	OJ000323_18.0419.C21
Gene No.	117741	Strand	+
Start	752	End	1567
Name	OJ000323_18.0419.C21.ol.gs	Method	GENSCAN
Start	752	End	1567
GI	none	Score	.47
Exons	752..876, 1195..1567		

Seq. No.	56253	Seq. ID	OJ000323_18.0419.C22
Gene No.	117742	Strand	-
Start	648	End	941
Name	OJ000323_18.0419.C22.ol.gs	Method	GENSCAN
Start	648	End	941
GI	none	Score	.72
Exons	648..941		

Seq. No.	56254	Seq. ID	OJ000323_18.0419.C23
Gene No.	117743	Strand	+
Start	640	End	1357
Name	OJ000323_18.0419.C23.ol.tw	Method	TBLASTX:Wheat
Start	528	End	863
GI	none	Score	78
Exons	528..680, 681..863		

Seq. No.	56254	Seq. ID	OJ000323_18.0419.C23
Gene No.	117743	Strand	+
Start	640	End	1357
Name	OJ000323_18.0419.C23.ol.tm	Method	TBLASTX:Maize
Start	609	End	1034
GI	none	Score	456
Exons	609..1034, 620..1033		

Seq. No.	56254	Seq. ID	OJ000323_18.0419.C23
Gene No.	117743	Strand	+
Start	640	End	1357
Name	OJ000323_18.0419.C23.ol.np	Method	AAT/NAP
Start	640	End	1357
GI	6069646	Score	512

Exons 640..1357
 GI Descrip. (AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]

Seq. No.	56255	Seq. ID	OJ000323_18.0419.C24
Gene No.	117744	Strand	+
Start	1	End	448
Name	OJ000323_18.0419.C24.ol.np	Method	AAT/NAP
Start	1	End	448
GI	6069646	Score	196

Exons 1..448
 GI Descrip. (AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]

Seq. No.	56255	Seq. ID	OJ000323_18.0419.C24
Gene No.	117744	Strand	+
Start	1	End	448
Name	OJ000323_18.0419.C24.ol.tm	Method	TBLASTX:Maize
Start	2	End	241
GI	none	Score	240
Exons	2..241, 17..178		

Seq. No.	56255	Seq. ID	OJ000323_18.0419.C24
Gene No.	117744	Strand	+
Start	1	End	448
Name	OJ000323_18.0419.C24.ol.tw	Method	TBLASTX:Wheat
Start	29	End	430
GI	none	Score	101
Exons	29..178, 236..430		

Seq. No.	56256	Seq. ID	OJ000323_18.0419.C25
Gene No.	117745	Strand	+
Start	1466	End	1797
Name	OJ000323_18.0419.C25.ol.np	Method	AAT/NAP
Start	1466	End	1797
GI	1076211	Score	69
Exons	1466..1797		

GI Descrip. hypothetical protein VSP-3 - Chlamydomonas reinhardtii gi|530876 (L29029) amino acid feature: Rod protein domain, aa 266 .. 468; amino acid feature: globular protein domain, aa 32 .. 265 [Chlamydomonas reinhardtii]

Seq. No.	56256	Seq. ID	OJ000323_18.0419.C25
Gene No.	117746	Strand	-
Start	989	End	1740
Name	OJ000323_18.0419.C25.ol.gs	Method	GENSCAN
Start	989	End	1740
GI	none	Score	.53
Exons	989..1100, 1520..1740		

Seq. No.	56256	Seq. ID	OJ000323_18.0419.C25
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Gene No.	117746	Strand	-
Start	989	End	1740
Name	OJ000323_18.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	1105	End	1279
GI	none	Score	108
Exons	1105..1179, 1119..1178, 1172..1279, 1190..1234		

Seq. No.	56257	Seq. ID	OJ000323_18.0419.C26
Gene No.	117747	Strand	+
Start	1	End	589
Name	OJ000323_18.0419.C26.o1.gp	Method	AAT/GAP
Start	1	End	589
GI	5003506	Score	1148
Exons	1..589		

Seq. No.	56257	Seq. ID	OJ000323_18.0419.C26
Gene No.	117748	Strand	-
Start	290	End	892
Name	OJ000323_18.0419.C26.o1.gs	Method	GENSCAN
Start	290	End	892
GI	none	Score	.41
Exons	290..402, 786..892		

Seq. No.	56257	Seq. ID	OJ000323_18.0419.C26
Gene No.	117749	Strand	-
Start	1892	End	2104
Name	OJ000323_18.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	1882	End	2104
GI	none	Score	186
Exons	1882..2103, 1943..2104, 1964..2104		

Seq. No.	56257	Seq. ID	OJ000323_18.0419.C26
Gene No.	117749	Strand	-
Start	1892	End	2104
Name	OJ000323_18.0419.C26.o2.gs	Method	GENSCAN
Start	1892	End	2082
GI	none	Score	.77
Exons	1892..1981, 2047..2082		

Seq. No.	56257	Seq. ID	OJ000323_18.0419.C26
Gene No.	117749	Strand	-
Start	1892	End	2104
Name	OJ000323_18.0419.C26.o1.np	Method	AAT/NAP
Start	1915	End	2104
GI	3860250	Score	233
Exons	1915..2104		
GI Descrip.	(AC005824) putative chorismate mutase/prephenate dehydratase [Arabidopsis thaliana]		

Seq. No.	56257	Seq. ID	OJ000323_18.0419.C26
Gene No.	117749	Strand	-
Start	1892	End	2104
Name	OJ000323_18.0419.C26.o1.ts	Method	TBLASTX:Soybean
Start	1939	End	2104
GI	none	Score	195
Exons	1939..2103, 1940..2104		

Seq. No.	56257	Seq. ID	OJ000323_18.0419.C26
Gene No.	117749	Strand	-
Start	1892	End	2104
Name	OJ000323_18.0419.C26.o1.tc	Method	TBLASTX:Cress
Start	1942	End	2103
GI	none	Score	78
Exons	1942..2103, 1957..2055, 1961..2092		

Seq. No.	56257	Seq. ID	OJ000323_18.0419.C26
Gene No.	117749	Strand	-
Start	1892	End	2104
Name	OJ000323_18.0419.C26.o1.tw	Method	TBLASTX:Wheat
Start	1961	End	2098
GI	none	Score	154
Exons	1961..2095, 1963..2097, 1964..2098		

Seq. No.	56258	Seq. ID	OJ000323_18.0419.C29
Gene No.	117750	Strand	+
Start	295	End	1430
Name	OJ000323_18.0419.C29.o2.np	Method	AAT/NAP
Start	295	End	1430
GI	7523512	Score	107
Exons	295..432, 1293..1430		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	56258	Seq. ID	OJ000323_18.0419.C29
Gene No.	117750	Strand	+
Start	295	End	1430
Name	OJ000323_18.0419.C29.o1.np	Method	AAT/NAP
Start	395	End	1250
GI	5922623	Score	214
Exons	395..502, 888..1008, 1175..1250		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	56259	Seq. ID	OJ000323_18.0419.C30
Gene No.	117751	Strand	-
Start	567	End	1148
Name	OJ000323_18.0419.C30.o1.gs	Method	GENSCAN
Start	567	End	1148
GI	none	Score	.58
Exons	567..659, 1032..1148		

Seq. No.	56260	Seq. ID	OJ000323_18.0419.C33
Gene No.	117752	Strand	-
Start	4682	End	6478
Name	OJ000323_18.0419.C33.o1.np	Method	AAT/NAP
Start	4682	End	6478
GI	3860255	Score	225
Exons	4682..5452, 5513..5615, 6363..6478		
GI Descrip.	(AC005824) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56261	Seq. ID	OJ000323_18.0419.C34
Gene No.	117753	Strand	+
Start	167	End	4471
Name	OJ000323_18.0419.C34.o1.gp	Method	AAT/GAP

Start 167 End 3993
 GI 189_1.R1084 Score 2857
 Exons 167..314, 542..613, 1219..1270, 1391..1471, 1653..1771,
 1867..2086, 2260..2378, 2470..2595, 2845..2985, 3526..3993
 GI Descrip. '4666287/dbj|BAA77214.1| 0.0e+00 (D85764) cytosolic
 monodehydroascorbate reductase [Oryza sativa]'

Seq. No. 56261 Seq. ID OJ000323_18.0419.C34
 Gene No. 117753 Strand +
 Start 167 End 4471
 Name OJ000323_18.0419.C34.o1.tm Method TBLASTX:Maize
 Start 245 End 3852
 GI none Score 94
 Exons 245..322, 248..319, 252..338, 533..616, 541..615, 1218..1265,
 1219..1266, 1220..1273, 1386..1478, 1390..1479, 1390..1491,
 1651..1770, 1652..1774, 1652..1768, 1846..2085, 1865..2008,
 1882..2085, 2016..2087, 2261..2380, 2261..2380, 2262..2381,
 2262..2387, 2467..2559, 2469..2621, 2470..2595, 2830..2985,
 2838..2990, 2839..2985, 2853..2990, 3523..3852, 3523..3801,
 3524..3841, 3525..3851

Seq. No. 56261 Seq. ID OJ000323_18.0419.C34
 Gene No. 117753 Strand +
 Start 167 End 4471
 Name OJ000323_18.0419.C34.o2.tc Method TBLASTX:Cress
 Start 246 End 1983
 GI none Score 69
 Exons 246..338, 267..308, 269..322, 535..615, 542..616, 1218..1265,
 1219..1269, 1392..1478, 1393..1479, 1636..1764, 1650..1766,
 1651..1773, 1652..1774, 1834..1983, 1866..1982

Seq. No. 56261 Seq. ID OJ000323_18.0419.C34
 Gene No. 117753 Strand +
 Start 167 End 4471
 Name OJ000323_18.0419.C34.o1.gs Method GENSCAN
 Start 261 End 4327
 GI none Score .5
 Exons 261..314, 542..613, 1219..1270, 1391..1471, 1653..1771,
 1867..2086, 2320..2378, 2470..2595, 2845..2985, 3526..3771,
 4018..4327

Seq. No. 56261 Seq. ID OJ000323_18.0419.C34
 Gene No. 117753 Strand +
 Start 167 End 4471
 Name OJ000323_18.0419.C34.o1.np Method AAT/NAP
 Start 261 End 3846
 GI 4666287 Score 1940
 Exons 261..314, 542..613, 1219..1270, 1391..1471, 1653..1771,
 1867..2086, 2260..2378, 2470..2595, 2845..2985, 3526..3846
 GI Descrip. (D85764) cytosolic monodehydroascorbate reductase [Oryza sativa]

Seq. No. 56261 Seq. ID OJ000323_18.0419.C34
 Gene No. 117753 Strand +
 Start 167 End 4471
 Name OJ000323_18.0419.C34.o1.ts Method TBLASTX:Soybean
 Start 273 End 3855
 GI none Score 60

Exons 273..338, 516..587, 535..606, 535..615, 542..616, 1219..1272,
1395..1478, 1396..1479, 1651..1773, 1652..1774, 1699..1737,
1860..2084, 1867..2085, 1874..1948, 1882..2082, 2016..2087,
2261..2380, 2262..2381, 2395..2544, 2469..2618, 2470..2622,
2830..2985, 2838..2990, 2839..2985, 2844..2987, 3494..3658,
3509..3766, 3523..3855, 3523..3804, 3525..3848

Seq. No.	56261	Seq. ID	OJ000323_18.0419.C34
Gene No.	117753	Strand	+
Start	167	End	4471
Name	OJ000323_18.0419.C34.o3.tw	Method	TBLASTX:Wheat
Start	1434	End	1771
GI	none	Score	74
Exons	1434..1478, 1435..1479, 1651..1770, 1652..1771		

Seq. No.	56261	Seq. ID	OJ000323_18.0419.C34
Gene No.	117753	Strand	+
Start	167	End	4471
Name	OJ000323_18.0419.C34.o2.tw	Method	TBLASTX:Wheat
Start	1878	End	2621
GI	none	Score	236
Exons	1878..1967, 1879..2085, 1882..2094, 1883..2095, 2033..2101, 2261..2380, 2262..2381, 2262..2387, 2467..2559, 2469..2621, 2470..2595		

Seq. No.	56261	Seq. ID	OJ000323_18.0419.C34
Gene No.	117753	Strand	+
Start	167	End	4471
Name	OJ000323_18.0419.C34.o1.tc	Method	TBLASTX:Cress
Start	1983	End	3868
GI	none	Score	46
Exons	1983..2039, 2016..2087, 2017..2085, 2261..2380, 2262..2381, 2470..2595, 2830..2985, 2839..2985, 2844..2990, 3523..3849, 3523..3795, 3525..3848, 3818..3868		

Seq. No.	56261	Seq. ID	OJ000323_18.0419.C34
Gene No.	117753	Strand	+
Start	167	End	4471
Name	OJ000323_18.0419.C34.o1.tw	Method	TBLASTX:Wheat
Start	2862	End	3855
GI	none	Score	181
Exons	2862..2990, 2863..2985, 2874..2990, 2882..3010, 3523..3855, 3523..3804, 3524..3838, 3525..3845		

Seq. No.	56261	Seq. ID	OJ000323_18.0419.C34
Gene No.	117753	Strand	+
Start	167	End	4471
Name	OJ000323_18.0419.C34.o2.np	Method	AAT/NAP
Start	4027	End	4471
GI	3860264	Score	124
Exons	4027..4471		
GI Descrip.	(AC005824) unknown protein [Arabidopsis thaliana]		

Seq. No.	56262	Seq. ID	OJ000323_18.0419.C35
Gene No.	117754	Strand	+
Start	1	End	2658
Name	OJ000323_18.0419.C35.o1.gp	Method	AAT/GAP

Start	1	End	1001
GI	uC-osflcyp064d10b1	Score	870
Exons	1..264, 718..802, 896..1001		
GI Descrip.	'3860264 8.0e-47 (AC005824) unknown protein [Arabidopsis thaliana]'		

Seq. No.	56262	Seq. ID	OJ000323_18.0419.C35
Gene No.	117754	Strand	+
Start	1	End	2658
Name	OJ000323_18.0419.C35.o1.np	Method	AAT/NAP
Start	1	End	2625
GI	3860264	Score	1223
Exons	1..264, 718..802, 896..1012, 1479..1543, 1665..1753, 1851..1930, 2006..2117, 2199..2318, 2443..2625		
GI Descrip.	(AC005824) unknown protein [Arabidopsis thaliana]		

Seq. No.	56262	Seq. ID	OJ000323_18.0419.C35
Gene No.	117754	Strand	+
Start	1	End	2658
Name	OJ000323_18.0419.C35.o1.gs	Method	GENSCAN
Start	44	End	371
GI	none	Score	.64
Exons	44..371		

Seq. No.	56262	Seq. ID	OJ000323_18.0419.C35
Gene No.	117754	Strand	+
Start	1	End	2658
Name	OJ000323_18.0419.C35.o1.ts	Method	TBLASTX:Soybean
Start	96	End	2619
GI	none	Score	196
Exons	96..164, 104..259, 105..263, 719..802, 888..1016, 903..1013, 968..1018, 1453..1551, 1460..1564, 1474..1545, 1479..1550, 1660..1755, 1661..1777, 1848..1931, 1848..1937, 1850..1939, 2003..2113, 2007..2120, 2007..2120, 2177..2311, 2199..2318, 2199..2318, 2446..2619, 2448..2618		

Seq. No.	56262	Seq. ID	OJ000323_18.0419.C35
Gene No.	117754	Strand	+
Start	1	End	2658
Name	OJ000323_18.0419.C35.o2.tm	Method	TBLASTX:Maize
Start	96	End	1533
GI	none	Score	209
Exons	96..260, 98..262, 717..803, 718..804, 879..1013, 888..1016, 901..1014, 962..1018, 1459..1533, 1479..1532		

Seq. No.	56262	Seq. ID	OJ000323_18.0419.C35
Gene No.	117754	Strand	+
Start	1	End	2658
Name	OJ000323_18.0419.C35.o1.tw	Method	TBLASTX:Wheat
Start	118	End	757
GI	none	Score	62
Exons	118..168, 119..169, 125..262, 126..263, 719..757, 720..755		

Seq. No.	56262	Seq. ID	OJ000323_18.0419.C35
Gene No.	117754	Strand	+
Start	1	End	2658
Name	OJ000323_18.0419.C35.o2.gs	Method	GENSCAN

Start	699	End	2625
GI	none	Score	.66
Exons	699..802, 896..1012, 1479..1543, 2190..2318, 2531..2625		

Seq. No.	56262	Seq. ID	OJ000323_18.0419.C35
Gene No.	117754	Strand	+
Start	1	End	2658
Name	OJ000323_18.0419.C35.o2.gp	Method	AAT/GAP
Start	2051	End	2658
GI	703054	Score	741
Exons	2051..2117, 2199..2318, 2443..2658		
GI Descrip.	3860264 8.0e-47 (AC005824) unknown protein [Arabidopsis thaliana]		

Seq. No.	56262	Seq. ID	OJ000323_18.0419.C35
Gene No.	117754	Strand	+
Start	1	End	2658
Name	OJ000323_18.0419.C35.o1.tm	Method	TBLASTX:Maize
Start	2219	End	2628
GI	none	Score	152
Exons	2219..2317, 2220..2327, 2220..2318, 2361..2414, 2432..2620, 2439..2627, 2442..2627, 2443..2628		

Seq. No.	56263	Seq. ID	OJ000323_18.0419.C36
Gene No.	117755	Strand	+
Start	499	End	1808
Name	OJ000323_18.0419.C36.o1.gs	Method	GENSCAN
Start	499	End	1383
GI	none	Score	.79
Exons	499..617, 772..919, 1033..1166, 1315..1383		

Seq. No.	56263	Seq. ID	OJ000323_18.0419.C36
Gene No.	117755	Strand	+
Start	499	End	1808
Name	OJ000323_18.0419.C36.o1.gp	Method	AAT/GAP
Start	794	End	1390
GI	8172_1.R1084	Score	547
Exons	794..919, 1033..1166, 1315..1390		
GI Descrip.	'5689238/dbj BAA82874.1 8.0e-53 (AB024292) histidine-containing phosphotransfer protein [Zea mays]'		

Seq. No.	56263	Seq. ID	OJ000323_18.0419.C36
Gene No.	117755	Strand	+
Start	499	End	1808
Name	OJ000323_18.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	851	End	1382
GI	none	Score	74
Exons	851..916, 1032..1175, 1033..1158, 1316..1372, 1316..1369, 1359..1382		

Seq. No.	56263	Seq. ID	OJ000323_18.0419.C36
Gene No.	117755	Strand	+
Start	499	End	1808
Name	OJ000323_18.0419.C36.o1.np	Method	AAT/NAP
Start	860	End	1808
GI	5689238	Score	298
Exons	860..919, 1033..1166, 1315..1383, 1792..1808		

GI Descrip. (AB024292) histidine-containing phosphotransfer protein [Zea mays]

Seq. No.	56264	Seq. ID	OJ000323_18.0419.C39
Gene No.	117756	Strand	+
Start	133	End	216
Name	OJ000323_18.0419.C39.o1.gs	Method	GENSCAN
Start	133	End	216
GI	none	Score	.93
Exons	133..216		

Seq. No.	56265	Seq. ID	OJ000323_18.0419.C40
Gene No.	117757	Strand	-
Start	629	End	1943
Name	OJ000323_18.0419.C40.o1.gs	Method	GENSCAN
Start	629	End	1857
GI	none	Score	.65
Exons	629..733, 745..1857		

Seq. No.	56265	Seq. ID	OJ000323_18.0419.C40
Gene No.	117757	Strand	-
Start	629	End	1943
Name	OJ000323_18.0419.C40.o1.tc	Method	TBLASTX:Cress
Start	680	End	1545
GI	none	Score	238
Exons	680..994, 709..993, 991..1164, 992..1135, 1258..1299, 1298..1345, 1300..1545, 1421..1519		

Seq. No.	56265	Seq. ID	OJ000323_18.0419.C40
Gene No.	117757	Strand	-
Start	629	End	1943
Name	OJ000323_18.0419.C40.o1.np	Method	AAT/NAP
Start	685	End	1943
GI	6579207	Score	1381
Exons	685..1943		
GI Descrip.	(AC011438) T23G18.10 [Arabidopsis thaliana]		

Seq. No.	56265	Seq. ID	OJ000323_18.0419.C40
Gene No.	117757	Strand	-
Start	629	End	1943
Name	OJ000323_18.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	692	End	1638
GI	none	Score	723
Exons	692..1345, 712..1638, 1421..1621, 1564..1638		

Seq. No.	56265	Seq. ID	OJ000323_18.0419.C40
Gene No.	117757	Strand	-
Start	629	End	1943
Name	OJ000323_18.0419.C40.o1.ts	Method	TBLASTX:Soybean
Start	698	End	1635
GI	none	Score	333
Exons	698..979, 698..850, 709..981, 856..987, 964..1125, 982..1635, 983..1135, 1223..1345, 1421..1624, 1558..1635		

Seq. No.	56265	Seq. ID	OJ000323_18.0419.C40
Gene No.	117757	Strand	-
Start	629	End	1943

Name	OJ000323_18.0419.C40.o2.tw	Method	TBLASTX:Wheat
Start	713	End	1071
GI	none	Score	168
Exons	713..883, 715..849, 716..850, 850..894, 851..892, 869..1063, 895..1071, 907..1071		

Seq. No.	56265	Seq. ID	OJ000323_18.0419.C40
Gene No.	117757	Strand	-
Start	629	End	1943
Name	OJ000323_18.0419.C40.o1.tw	Method	TBLASTX:Wheat
Start	1234	End	1641
GI	none	Score	143
Exons	1234..1641, 1235..1345, 1421..1621, 1552..1638		

Seq. No.	56266	Seq. ID	OJ000323_18.0419.C41
Gene No.	117758	Strand	+
Start	295	End	839
Name	OJ000323_18.0419.C41.o1.gp	Method	AAT/GAP
Start	295	End	839
GI	none	Score	467
Exons	295..545, 817..839		

Seq. No.	56267	Seq. ID	OJ000323_18.0419.C42
Gene No.	117759	Strand	+
Start	410	End	739
Name	OJ000323_18.0419.C42.o1.np	Method	AAT/NAP
Start	410	End	739
GI	5080823	Score	75
Exons	410..739		
GI Descrip.	(AC007258) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56267	Seq. ID	OJ000323_18.0419.C42
Gene No.	117760	Strand	-
Start	15	End	559
Name	OJ000323_18.0419.C42.o1.gs	Method	GENSCAN
Start	15	End	559
GI	none	Score	.96
Exons	15..44, 476..559		

Seq. No.	56268	Seq. ID	OJ000323_18.0419.C43
Gene No.	117761	Strand	+
Start	1	End	1311
Name	OJ000323_18.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	1174
GI	4581148	Score	237
Exons	1..309, 530..611, 731..1174		
GI Descrip.	(AC006919) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56268	Seq. ID	OJ000323_18.0419.C43
Gene No.	117761	Strand	+
Start	1	End	1311
Name	OJ000323_18.0419.C43.o1.gs	Method	GENSCAN
Start	500	End	1303
GI	none	Score	.54
Exons	500..631, 731..1303		

Seq. No.	56268	Seq. ID	OJ000323_18.0419.C43
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Gene No.	117761	Strand	+
Start	1	End	1311
Name	OJ000323_18.0419.C43.ol.tm	Method	TBLASTX:Maize
Start	884	End	1311
GI	none	Score	226
Exons	884..1174, 886..924, 911..1177, 934..1176, 1180..1212, 1220..1309, 1222..1311		

Seq. No.	56268	Seq. ID	OJ000323_18.0419.C43
Gene No.	117761	Strand	+
Start	1	End	1311
Name	OJ000323_18.0419.C43.ol.gp	Method	AAT/GAP
Start	928	End	1303
GI	5003507	Score	723
Exons	928..1303		

Seq. No.	56269	Seq. ID	OJ000323_18.0419.C45
Gene No.	117762	Strand	-
Start	220	End	705
Name	OJ000323_18.0419.C45.ol.gs	Method	GENSCAN
Start	220	End	705
GI	none	Score	.82
Exons	220..322, 650..705		

Seq. No.	56270	Seq. ID	OJ000313_19.0419.C2
Gene No.	117763	Strand	+
Start	268	End	504
Name	OJ000313_19.0419.C2.ol.gs	Method	GENSCAN
Start	268	End	504
GI	none	Score	.83
Exons	268..504		

Seq. No.	56270	Seq. ID	OJ000313_19.0419.C2
Gene No.	117764	Strand	-
Start	334	End	553
Name	OJ000313_19.0419.C2.ol.gp	Method	AAT/GAP
Start	334	End	553
GI	none	Score	392
Exons	334..553		

Seq. No.	56271	Seq. ID	OJ000313_19.0419.C3
Gene No.	117765	Strand	-
Start	722	End	913
Name	OJ000313_19.0419.C3.ol.gs	Method	GENSCAN
Start	722	End	913
GI	none	Score	.6
Exons	722..913		

Seq. No.	56272	Seq. ID	OJ000313_19.0419.C5
Gene No.	117766	Strand	+
Start	1438	End	2439
Name	OJ000313_19.0419.C5.ol.np	Method	AAT/NAP
Start	1438	End	2439
GI	4680183	Score	276
Exons	1438..1952, 2325..2439		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	56272	Seq. ID	OJ000313_19.0419.C5
Gene No.	117766	Strand	+
Start	1438	End	2439
Name	OJ000313_19.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	1496	End	1786
GI	none	Score	188
Exons	1496..1786, 1594..1770		

Seq. No.	56273	Seq. ID	OJ000313_19.0419.C6
Gene No.	117767	Strand	-
Start	1	End	701
Name	OJ000313_19.0419.C6.o1.gp	Method	AAT/GAP
Start	1	End	75
GI	LIB3475-007-P1-K1-G8	Score	150
Exons	1..75		
GI Descrip.	'5441880/dbj BAA82378.1 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	56273	Seq. ID	OJ000313_19.0419.C6
Gene No.	117767	Strand	-
Start	1	End	701
Name	OJ000313_19.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	701
GI	7228438	Score	1060
Exons	1..201, 291..701		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	56273	Seq. ID	OJ000313_19.0419.C6
Gene No.	117767	Strand	-
Start	1	End	701
Name	OJ000313_19.0419.C6.o1.gs	Method	GENSCAN
Start	16	End	617
GI	none	Score	.86
Exons	16..201, 291..617		

Seq. No.	56274	Seq. ID	OJ000313_19.0419.C7
Gene No.	117768	Strand	-
Start	1	End	716
Name	OJ000313_19.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	716
GI	7228442	Score	712
Exons	1..41, 266..716		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	56274	Seq. ID	OJ000313_19.0419.C7
Gene No.	117768	Strand	-
Start	1	End	716
Name	OJ000313_19.0419.C7.o1.gs	Method	GENSCAN
Start	340	End	491
GI	none	Score	.5
Exons	340..491		

Seq. No.	56275	Seq. ID	OJ000313_19.0419.C8
Gene No.	117769	Strand	+
Start	368	End	456
Name	OJ000313_19.0419.C8.ol.gs	Method	GENSCAN
Start	368	End	456
GI	none	Score	.76
Exons	368..456		

Seq. No.	56276	Seq. ID	OJ000313_19.0419.C14
Gene No.	117770	Strand	-
Start	143	End	725
Name	OJ000313_19.0419.C14.ol.gs	Method	GENSCAN
Start	143	End	725
GI	none	Score	.42
Exons	143..279, 337..539, 670..725		

Seq. No.	56277	Seq. ID	OJ000313_19.0419.C15
Gene No.	117771	Strand	+
Start	1	End	1697
Name	OJ000313_19.0419.C15.ol.np	Method	AAT/NAP
Start	1	End	1697
GI	4895204	Score	163
Exons	1..115, 1167..1697		
GI Descrip.	(AC007661) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56277	Seq. ID	OJ000313_19.0419.C15
Gene No.	117771	Strand	+
Start	1	End	1697
Name	OJ000313_19.0419.C15.ol.gs	Method	GENSCAN
Start	1099	End	1636
GI	none	Score	.69
Exons	1099..1500, 1514..1636		

Seq. No.	56277	Seq. ID	OJ000313_19.0419.C15
Gene No.	117771	Strand	+
Start	1	End	1697
Name	OJ000313_19.0419.C15.ol.tm	Method	TBLASTX:Maize
Start	1140	End	1524
GI	none	Score	428
Exons	1140..1433, 1141..1431, 1402..1443, 1456..1524		

Seq. No.	56278	Seq. ID	OJ000313_19.0419.C17
Gene No.	117772	Strand	+
Start	608	End	723
Name	OJ000313_19.0419.C17.ol.np	Method	AAT/NAP
Start	608	End	723
GI	4587556	Score	69
Exons	608..723		
GI Descrip.	(AC006577) Similar to gi 1653162 (p)ppGpp 3-pyrophosphohydrolase from Synechocystis sp genome gb D90911. EST gb W43807 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	56279	Seq. ID	OJ000313_19.0419.C18
Gene No.	117773	Strand	-
Start	1	End	828
Name	OJ000313_19.0419.C18.ol.np	Method	AAT/NAP
Start	1	End	805

GI	4585873	Score	119
Exons	1..41, 671..805		
GI Descrip.	(AC005850) Putative protein kinase [Arabidopsis thaliana]		
Seq. No.	56279	Seq. ID	OJ000313_19.0419.C18
Gene No.	117773	Strand	-
Start	1	End	828
Name	OJ000313_19.0419.C18.ol.ts	Method	TBLASTX:Soybean
Start	651	End	800
GI	none	Score	140
Exons	651..800, 671..799		
Seq. No.	56279	Seq. ID	OJ000313_19.0419.C18
Gene No.	117773	Strand	-
Start	1	End	828
Name	OJ000313_19.0419.C18.ol.tm	Method	TBLASTX:Maize
Start	654	End	802
GI	none	Score	150
Exons	654..800, 671..802, 671..799		
Seq. No.	56279	Seq. ID	OJ000313_19.0419.C18
Gene No.	117773	Strand	-
Start	1	End	828
Name	OJ000313_19.0419.C18.ol.gp	Method	AAT/GAP
Start	671	End	828
GI	49507_1.R1084	Score	236
Exons	671..828		
GI Descrip.	'4006829/gb AAC95171.1 2.0e-55 (AC005970) putative protein kinase [Arabidopsis thaliana]'		
Seq. No.	56279	Seq. ID	OJ000313_19.0419.C18
Gene No.	117773	Strand	-
Start	1	End	828
Name	OJ000313_19.0419.C18.ol.gs	Method	GENSCAN
Start	671	End	807
GI	none	Score	.99
Exons	671..807		
Seq. No.	56280	Seq. ID	OJ000313_19.0419.C19
Gene No.	117774	Strand	+
Start	879	End	1383
Name	OJ000313_19.0419.C19.ol.tm	Method	TBLASTX:Maize
Start	867	End	1322
GI	none	Score	641
Exons	867..1322, 896..1321		
Seq. No.	56280	Seq. ID	OJ000313_19.0419.C19
Gene No.	117774	Strand	+
Start	879	End	1383
Name	OJ000313_19.0419.C19.ol.gp	Method	AAT/GAP
Start	879	End	1383
GI	19595_1.R1084	Score	979
Exons	879..1383		
GI Descrip.	'3608481 2.0e-49 (AF088913) ribosomal protein L27a [Petunia x hybrida]'		
Seq. No.	56280	Seq. ID	OJ000313_19.0419.C19

Gene No.	117774	Strand	+
Start	879	End	1383
Name	OJ000313_19.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	891	End	1378
GI	none	Score	39
Exons	891..914, 896..1159, 906..1163, 1203..1322, 1212..1262, 1214..1378		

Seq. No.	56280	Seq. ID	OJ000313_19.0419.C19
Gene No.	117774	Strand	+
Start	879	End	1383
Name	OJ000313_19.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	902	End	1322
GI	none	Score	433
Exons	902..1159, 903..1163, 1203..1265, 1214..1267, 1266..1322, 1268..1321		

Seq. No.	56280	Seq. ID	OJ000313_19.0419.C19
Gene No.	117774	Strand	+
Start	879	End	1383
Name	OJ000313_19.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	914	End	1322
GI	none	Score	526
Exons	914..1279, 915..1280, 1265..1321, 1266..1322		

Seq. No.	56280	Seq. ID	OJ000313_19.0419.C19
Gene No.	117774	Strand	+
Start	879	End	1383
Name	OJ000313_19.0419.C19.o1.gs	Method	GENSCAN
Start	915	End	1355
GI	none	Score	.73
Exons	915..1355		

Seq. No.	56280	Seq. ID	OJ000313_19.0419.C19
Gene No.	117774	Strand	+
Start	879	End	1383
Name	OJ000313_19.0419.C19.o1.np	Method	AAT/NAP
Start	915	End	1352
GI	3608481	Score	615
Exons	915..1352		
GI Descrip.	(AF088913) ribosomal protein L27a [Petunia x hybrida]		

Seq. No.	56281	Seq. ID	OJ000313_19.0419.C20
Gene No.	117775	Strand	-
Start	1	End	1805
Name	OJ000313_19.0419.C20.o1.np	Method	AAT/NAP
Start	1	End	1805
GI	4378066	Score	1544
Exons	1..1805		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		

Seq. No.	56281	Seq. ID	OJ000313_19.0419.C20
Gene No.	117775	Strand	-
Start	1	End	1805
Name	OJ000313_19.0419.C20.o1.gs	Method	GENSCAN

Start 222
GI none
Exons 222..1357, 1368..1674

End 1674
Score .43

Seq. No. 56281
Gene No. 117775
Start 1
Name OJ000313_19.0419.C20.o3.tw
Start 231
GI none
Exons 231..356, 238..351, 441..608

Seq. ID OJ000313_19.0419.C20
Strand -
End 1805
Method TBLASTX:Wheat
End 608
Score 62

Seq. No. 56281
Gene No. 117775
Start 1
Name OJ000313_19.0419.C20.o1.ts
Start 432
GI none
Exons 432..815, 640..765

Seq. ID OJ000313_19.0419.C20
Strand -
End 1805
Method TBLASTX:Soybean
End 815
Score 104

Seq. No. 56281
Gene No. 117775
Start 1
Name OJ000313_19.0419.C20.o2.tm
Start 534
GI none
Exons 534..917, 547..807, 582..914

Seq. ID OJ000313_19.0419.C20
Strand -
End 1805
Method TBLASTX:Maize
End 917
Score 212

Seq. No. 56281
Gene No. 117775
Start 1
Name OJ000313_19.0419.C20.o1.tw
Start 657
GI none
Exons 657..1076, 658..1074, 660..1076

Seq. ID OJ000313_19.0419.C20
Strand -
End 1805
Method TBLASTX:Wheat
End 1076
Score 219

Seq. No. 56281
Gene No. 117775
Start 1
Name OJ000313_19.0419.C20.o1.tm
Start 945
GI none
Exons 945..1259, 945..1301, 946..1302

Seq. ID OJ000313_19.0419.C20
Strand -
End 1805
Method TBLASTX:Maize
End 1302
Score 167

Seq. No. 56281
Gene No. 117775
Start 1
Name OJ000313_19.0419.C20.o2.tw
Start 1077
GI none
Exons 1077..1334, 1077..1370, 1078..1338, 1101..1187, 1372..1434

Seq. ID OJ000313_19.0419.C20
Strand -
End 1805
Method TBLASTX:Wheat
End 1434
Score 101

Seq. No. 56281
Gene No. 117775
Start 1
Name OJ000313_19.0419.C20.o1.gp
Start 1633

Seq. ID OJ000313_19.0419.C20
Strand -
End 1805
Method AAT/GAP
End 1805

GI uC-osflM202098c02b1 Score 292
 Exons 1633..1805
 GI Descrip. '4378066/gb|AAD19359.1| 2.0e-13 (AF098806) polyprotein [Sorghum
 bicolor] >gi_4680208_gb_AAD27571.1_AF114171_12 (AF114171)
 polyprotein [Sorghum bicolor]'

Seq. No. 56282 Seq. ID OJ000313_19.0419.C25
 Gene No. 117776 Strand -
 Start 59 End 1436
 Name OJ000313_19.0419.C25.o1.gs Method GENSCAN
 Start 59 End 1436
 GI none Score .44
 Exons 59..879, 967..1436

Seq. No. 56283 Seq. ID OJ000313_19.0419.C31
 Gene No. 117777 Strand -
 Start 1 End 119
 Name OJ000313_19.0419.C31.o1.np Method AAT/NAP
 Start 1 End 119
 GI 7485509 Score 134
 Exons 1..119
 GI Descrip. hypothetical protein F15B8.40 - Arabidopsis thaliana
 gi|4678270|emb|CAB41178.1| (AL049660) protein kinase-like
 protein [Arabidopsis thaliana]

Seq. No. 56284 Seq. ID OJ000313_19.0419.C35
 Gene No. 117778 Strand -
 Start 99 End 530
 Name OJ000313_19.0419.C35.o1.gs Method GENSCAN
 Start 99 End 530
 GI none Score .82
 Exons 99..207, 379..530

Seq. No. 56285 Seq. ID OJ000313_19.0419.C36
 Gene No. 117779 Strand +
 Start 125 End 630
 Name OJ000313_19.0419.C36.o1.gs Method GENSCAN
 Start 125 End 630
 GI none Score .91
 Exons 125..197, 202..400, 402..630

Seq. No. 56286 Seq. ID OJ000313_19.0419.C38
 Gene No. 117780 Strand +
 Start 1 End 922
 Name OJ000313_19.0419.C38.o1.np Method AAT/NAP
 Start 1 End 922
 GI 4378066 Score 785
 Exons 1..922
 GI Descrip. (AF098806) polyprotein [Sorghum bicolor]
 gi|4680208|gb|AAD27571.1|AF114171_12 (AF114171) polyprotein
 [Sorghum bicolor]

Seq. No. 56286 Seq. ID OJ000313_19.0419.C38
 Gene No. 117780 Strand +
 Start 1 End 922
 Name OJ000313_19.0419.C38.o2.tm Method TBLASTX:Maize
 Start 1 End 186

GI none
Exons 1..186, 18..185

Score 186

Seq. No. 56286
Gene No. 117780
Start 1
Name OJ000313_19.0419.C38.ol.tw
Start 28
GI none
Exons 28..411, 75..239, 294..335

Seq. ID OJ000313_19.0419.C38
Strand +
End 922
Method TBLASTX:Wheat
End 411
Score 253

Seq. No. 56286
Gene No. 117780
Start 1
Name OJ000313_19.0419.C38.ol.tm
Start 187
GI none
Exons 187..549, 279..536, 373..540

Seq. ID OJ000313_19.0419.C38
Strand +
End 922
Method TBLASTX:Maize
End 549
Score 369

Seq. No. 56286
Gene No. 117780
Start 1
Name OJ000313_19.0419.C38.ol.ts
Start 190
GI none
Exons 190..339, 219..338, 336..557, 340..564

Seq. ID OJ000313_19.0419.C38
Strand +
End 922
Method TBLASTX:Soybean
End 564
Score 98

Seq. No. 56286
Gene No. 117780
Start 1
Name OJ000313_19.0419.C38.o3.tm
Start 580
GI none
Exons 580..822

Seq. ID OJ000313_19.0419.C38
Strand +
End 922
Method TBLASTX:Maize
End 822
Score 185

Seq. No. 56287
Gene No. 117781
Start 1
Name OJ000313_19.0419.C43.ol.np
Start 1
GI 5852086
Exons 1..24, 326..470, 1919..1938
GI Descrip. (AL117264) zwh0009.1 [Oryza sativa]

Seq. ID OJ000313_19.0419.C43
Strand +
End 1938
Method AAT/NAP
End 1938
Score 197

Seq. No. 56287
Gene No. 117781
Start 1
Name OJ000313_19.0419.C43.ol.gs
Start 325
GI none
Exons 325..487

Seq. ID OJ000313_19.0419.C43
Strand +
End 1938
Method GENSCAN
End 487
Score .51

Seq. No. 56288
Gene No. 117782
Start 1
Name OJ000313_19.0419.C44.ol.np
Start 1

Seq. ID OJ000313_19.0419.C44
Strand +
End 2338
Method AAT/NAP
End 2338

GI 5852086 Score 549
 Exons 1..108, 271..398, 1194..1298, 1548..1640, 2102..2193, 2308..2338
 GI Descrip. (AL117264) zwh0009.1 [Oryza sativa]

Seq. No. 56288 Seq. ID OJ000313_19.0419.C44
 Gene No. 117782 Strand +
 Start 1 End 2338
 Name OJ000313_19.0419.C44.o1.gs Method GENSCAN
 Start 22 End 2176
 GI none Score .95
 Exons 22..79, 271..398, 1194..1298, 1548..1640, 2102..2176

Seq. No. 56288 Seq. ID OJ000313_19.0419.C44
 Gene No. 117782 Strand +
 Start 1 End 2338
 Name OJ000313_19.0419.C44.o1.tc Method TBLASTX:Cress
 Start 236 End 2226
 GI none Score 85
 Exons 236..358, 245..397, 246..398, 1161..1307, 1566..1616, 2101..2226, 2102..2182

Seq. No. 56288 Seq. ID OJ000313_19.0419.C44
 Gene No. 117782 Strand +
 Start 1 End 2338
 Name OJ000313_19.0419.C44.o1.tm Method TBLASTX:Maize
 Start 272 End 1265
 GI none Score 210
 Exons 272..397, 276..398, 279..398, 331..399, 1173..1265

Seq. No. 56288 Seq. ID OJ000313_19.0419.C44
 Gene No. 117782 Strand +
 Start 1 End 2338
 Name OJ000313_19.0419.C44.o1.ts Method TBLASTX:Soybean
 Start 276 End 2182
 GI none Score 188
 Exons 276..398, 278..397, 1173..1307, 1566..1616, 2101..2175, 2102..2182

Seq. No. 56289 Seq. ID OJ000313_19.0419.C45
 Gene No. 117783 Strand +
 Start 1 End 154
 Name OJ000313_19.0419.C45.o1.gp Method AAT/GAP
 Start 1 End 154
 GI 4715257 Score 274
 Exons 1..154
 GI Descrip. 5852086/emb|CAB55393.1| 5.0e-11 (AL117264) zwh0009.1 [Oryza sativa]

Seq. No. 56289 Seq. ID OJ000313_19.0419.C45
 Gene No. 117784 Strand -
 Start 585 End 1354
 Name OJ000313_19.0419.C45.o1.gs Method GENSCAN
 Start 585 End 1216
 GI none Score .96
 Exons 585..1216

Seq. No. 56289 Seq. ID OJ000313_19.0419.C45

Gene No.	117784	Strand	-
Start	585	End	1354
Name	OJ000313_19.0419.C45.o1.np	Method	AAT/NAP
Start	588	End	1354
GI	5852087	Score	1077
Exons	588..1354		
GI Descrip.	(AL117264) zwh0010.1 [Oryza sativa]		

Seq. No.	56289	Seq. ID	OJ000313_19.0419.C45
Gene No.	117784	Strand	-
Start	585	End	1354
Name	OJ000313_19.0419.C45.o1.tc	Method	TBLASTX:Cress
Start	657	End	1224
GI	none	Score	82
Exons	657..908, 673..918, 675..917, 930..1160, 934..1161, 1156..1224, 1158..1217		

Seq. No.	56289	Seq. ID	OJ000313_19.0419.C45
Gene No.	117784	Strand	-
Start	585	End	1354
Name	OJ000313_19.0419.C45.o2.tw	Method	TBLASTX:Wheat
Start	666	End	851
GI	none	Score	128
Exons	666..797, 670..807, 673..849, 675..851		

Seq. No.	56289	Seq. ID	OJ000313_19.0419.C45
Gene No.	117784	Strand	-
Start	585	End	1354
Name	OJ000313_19.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	672	End	1217
GI	none	Score	116
Exons	672..797, 673..807, 675..848, 682..828, 837..917, 847..918, 933..1130, 934..1113, 1038..1175, 1158..1217		

Seq. No.	56289	Seq. ID	OJ000313_19.0419.C45
Gene No.	117784	Strand	-
Start	585	End	1354
Name	OJ000313_19.0419.C45.o1.ts	Method	TBLASTX:Soybean
Start	672	End	1218
GI	none	Score	104
Exons	672..908, 681..917, 718..918, 930..1136, 934..1137, 1152..1217, 1152..1217, 1153..1218		

Seq. No.	56289	Seq. ID	OJ000313_19.0419.C45
Gene No.	117784	Strand	-
Start	585	End	1354
Name	OJ000313_19.0419.C45.o1.tw	Method	TBLASTX:Wheat
Start	852	End	1230
GI	none	Score	52
Exons	852..938, 852..1022, 853..1023, 997..1026, 1008..1124, 1021..1128, 1021..1128, 1152..1229, 1153..1230		

Seq. No.	56290	Seq. ID	OJ000313_19.0419.C46
Gene No.	117785	Strand	+
Start	243	End	1881
Name	OJ000313_19.0419.C46.o1.gs	Method	GENSCAN
Start	243	End	1553

GI	none	Score	.49
Exons	243..484, 760..1553		
Seq. No.	56290	Seq. ID	OJ000313_19.0419.C46
Gene No.	117785	Strand	+
Start	243	End	1881
Name	OJ000313_19.0419.C46.o1.np	Method	AAT/NAP
Start	768	End	1838
GI	5852088	Score	1815
Exons	768..1838		
GI Descrip.	(AL117264) zwh11.1 [Oryza sativa]		

Seq. No.	56290	Seq. ID	OJ000313_19.0419.C46
Gene No.	117785	Strand	+
Start	243	End	1881
Name	OJ000313_19.0419.C46.o1.tm	Method	TBLASTX:Maize
Start	1106	End	1881
GI	none	Score	1051
Exons	1106..1855, 1110..1853, 1110..1859, 1111..1857, 1600..1881		

Seq. No.	56290	Seq. ID	OJ000313_19.0419.C46
Gene No.	117785	Strand	+
Start	243	End	1881
Name	OJ000313_19.0419.C46.o1.tc	Method	TBLASTX:Cress
Start	1176	End	1856
GI	none	Score	50
Exons	1176..1325, 1185..1556, 1233..1469, 1305..1652, 1371..1574, 1395..1754, 1437..1658, 1455..1772, 1503..1844, 1545..1856, 1668..1856		

Seq. No.	56290	Seq. ID	OJ000313_19.0419.C46
Gene No.	117785	Strand	+
Start	243	End	1881
Name	OJ000313_19.0419.C46.o1.ts	Method	TBLASTX:Soybean
Start	1185	End	1856
GI	none	Score	201
Exons	1185..1598, 1293..1694, 1305..1496, 1317..1808, 1365..1586, 1431..1856, 1527..1856		

Seq. No.	56291	Seq. ID	OJ000313_19.0419.C47
Gene No.	117786	Strand	+
Start	235	End	1160
Name	OJ000313_19.0419.C47.o1.np	Method	AAT/NAP
Start	235	End	1160
GI	5852089	Score	283
Exons	235..486, 1143..1160		
GI Descrip.	(AL117264) zwh12.1 [Oryza sativa]		

Seq. No.	56292	Seq. ID	OJ000313_19.0419.C48
Gene No.	117787	Strand	+
Start	205	End	959
Name	OJ000313_19.0419.C48.o1.np	Method	AAT/NAP
Start	205	End	959
GI	5852089	Score	377
Exons	205..338, 717..830, 918..959		
GI Descrip.	(AL117264) zwh12.1 [Oryza sativa]		

Seq. No.	56292	Seq. ID	OJ000313_19.0419.C48
Gene No.	117787	Strand	+
Start	205	End	959
Name	OJ000313_19.0419.C48.ol.gs	Method	GENSCAN
Start	214	End	830
GI	none	Score	.7
Exons	214..338, 717..830		

Seq. No.	56292	Seq. ID	OJ000313_19.0419.C48
Gene No.	117788	Strand	-
Start	206	End	264
Name	OJ000313_19.0419.C48.ol.gp	Method	AAT/GAP
Start	206	End	264
GI	54678_1.R1084	Score	85
Exons	206..264		
GI Descrip.	'5852077/emb AL117264.1 OSB6015 7.0e-58 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone: b6015'		

Seq. No.	56292	Seq. ID	OJ000313_19.0419.C48
Gene No.	117789	Strand	
Start	203	End	959
Name	OJ000313_19.0419.C48.ol.tm	Method	TBLASTX:Maize
Start	203	End	959
GI	none	Score	97
Exons	203..337, 206..334, 210..344, 715..831, 716..832, 717..836, 909..959, 917..958		

Seq. No.	56292	Seq. ID	OJ000313_19.0419.C48
Gene No.	117789	Strand	
Start	203	End	959
Name	OJ000313_19.0419.C48.ol.ts	Method	TBLASTX:Soybean
Start	717	End	959
GI	none	Score	163
Exons	717..836, 764..838, 909..959, 917..958		

Seq. No.	56293	Seq. ID	OJ000313_19.0419.C49
Gene No.	117790	Strand	+
Start	1	End	3646
Name	OJ000313_19.0419.C49.ol.np	Method	AAT/NAP
Start	1	End	3646
GI	5852089	Score	2093
Exons	1..201, 285..429, 536..746, 1259..1281, 1308..1395, 1515..2016, 3118..3646		
GI Descrip.	(AL117264) zwh12.1 [Oryza sativa]		

Seq. No.	56293	Seq. ID	OJ000313_19.0419.C49
Gene No.	117790	Strand	+
Start	1	End	3646
Name	OJ000313_19.0419.C49.ol.ts	Method	TBLASTX:Soybean
Start	28	End	753
GI	none	Score	214
Exons	28..174, 67..204, 69..203, 273..431, 284..430, 533..733, 534..752, 535..753		

Seq. No.	56293	Seq. ID	OJ000313_19.0419.C49
Gene No.	117790	Strand	+
Start	1	End	3646

Name	OJ000313_19.0419.C49.ol.tc	Method	TBLASTX:Cress
Start	67	End	431
GI	none	Score	219
Exons	67..204, 69..203, 133..204, 273..425, 284..430, 285..431		
Seq. No.	56293	Seq. ID	OJ000313_19.0419.C49
Gene No.	117790	Strand	+
Start	1	End	3646
Name	OJ000313_19.0419.C49.ol.tm	Method	TBLASTX:Maize
Start	67	End	1079
GI	none	Score	233
Exons	67..204, 69..239, 277..423, 278..412, 284..430, 285..431, 534..767, 534..773, 535..771, 823..855, 830..856, 1023..1079		
Seq. No.	56293	Seq. ID	OJ000313_19.0419.C49
Gene No.	117790	Strand	+
Start	1	End	3646
Name	OJ000313_19.0419.C49.ol.gs	Method	GENSCAN
Start	72	End	1997
GI	none	Score	.96
Exons	72..201, 285..429, 536..746, 1259..1395, 1515..1897, 1902..1997		
Seq. No.	56294	Seq. ID	OJ000313_19.0419.C50
Gene No.	117791	Strand	+
Start	1	End	738
Name	OJ000313_19.0419.C50.ol.np	Method	AAT/NAP
Start	1	End	735
GI	5852089	Score	790
Exons	1..69, 321..735		
GI Descrip.	(AL117264) zwh12.1 [Oryza sativa]		
Seq. No.	56294	Seq. ID	OJ000313_19.0419.C50
Gene No.	117791	Strand	+
Start	1	End	738
Name	OJ000313_19.0419.C50.ol.gs	Method	GENSCAN
Start	481	End	738
GI	none	Score	.55
Exons	481..738		
Seq. No.	56295	Seq. ID	OJ000313_19.0419.C51
Gene No.	117792	Strand	+
Start	1055	End	1296
Name	OJ000313_19.0419.C51.ol.gs	Method	GENSCAN
Start	1055	End	1199
GI	none	Score	.72
Exons	1055..1199		
Seq. No.	56295	Seq. ID	OJ000313_19.0419.C51
Gene No.	117792	Strand	+
Start	1055	End	1296
Name	OJ000313_19.0419.C51.ol.np	Method	AAT/NAP
Start	1077	End	1296
GI	5852084	Score	319
Exons	1077..1296		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		
Seq. No.	56296	Seq. ID	OJ000313_19.0419.C55

Gene No.	117793	Strand	-
Start	383	End	2365
Name	OJ000313_19.0419.C55.ol.np	Method	AAT/NAP
Start	383	End	2365
GI	5852101	Score	1670
Exons	383..672, 1471..1597, 1674..2365		
GI Descrip.	(AL117264) zwh24.1 [Oryza sativa]		

Seq. No.	56296	Seq. ID	OJ000313_19.0419.C55
Gene No.	117793	Strand	-
Start	383	End	2365
Name	OJ000313_19.0419.C55.ol.gp	Method	AAT/GAP
Start	1131	End	1870
GI	22051_1.R1084	Score	1407
Exons	1131..1870		
GI Descrip.	'5852077/emb AL117264.1 OSB6015 1.0e-44 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone: b6015'		

Seq. No.	56296	Seq. ID	OJ000313_19.0419.C55
Gene No.	117793	Strand	-
Start	383	End	2365
Name	OJ000313_19.0419.C55.ol.ts	Method	TBLASTX:Soybean
Start	1437	End	1801
GI	none	Score	67
Exons	1437..1496, 1439..1525, 1446..1511, 1498..1608, 1526..1684, 1527..1649, 1595..1708, 1635..1712, 1694..1801, 1719..1793		

Seq. No.	56297	Seq. ID	OJ000313_19.0419.C56
Gene No.	117794	Strand	+
Start	138	End	2600
Name	OJ000313_19.0419.C56.ol.np	Method	AAT/NAP
Start	138	End	2600
GI	5852100	Score	1501
Exons	138..235, 338..587, 639..783, 2143..2600		
GI Descrip.	(AL117264) zwh23.1 [Oryza sativa]		

Seq. No.	56297	Seq. ID	OJ000313_19.0419.C56
Gene No.	117794	Strand	+
Start	138	End	2600
Name	OJ000313_19.0419.C56.ol.gs	Method	GENSCAN
Start	338	End	2457
GI	none	Score	.84
Exons	338..524, 2053..2457		

Seq. No.	56297	Seq. ID	OJ000313_19.0419.C56
Gene No.	117795	Strand	-
Start	613	End	749
Name	OJ000313_19.0419.C56.ol.gp	Method	AAT/GAP
Start	613	End	749
GI	19505_1.R1084	Score	218
Exons	613..749		
GI Descrip.	'5679842/emb CAB51835.1 1.0e-58 (AJ243961) 11332.6 [Oryza sativa]'		

Seq. No.	56298	Seq. ID	OJ000313_19.0419.C57
Gene No.	117796	Strand	-
Start	1198	End	1293

Name	OJ000313_19.0419.C57.o1.gp	Method	AAT/GAP
Start	1198	End	1293
GI	LIB3477-003-P1-K1-E9	Score	135
Exons	1198..1293		
GI Descrip.	'2498586/sp Q40638 MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	56299	Seq. ID	OJ000313_19.0419.C58
Gene No.	117797	Strand	+
Start	31	End	330
Name	OJ000313_19.0419.C58.o1.gs	Method	GENSCAN
Start	31	End	330
GI	none	Score	.86
Exons	31..330		

Seq. No.	56299	Seq. ID	OJ000313_19.0419.C58
Gene No.	117798	Strand	+
Start	4917	End	6576
Name	OJ000313_19.0419.C58.o3.gs	Method	GENSCAN
Start	4917	End	6576
GI	none	Score	.56
Exons	4917..4944, 5632..5688, 6428..6576		

Seq. No.	56299	Seq. ID	OJ000313_19.0419.C58
Gene No.	117799	Strand	-
Start	1	End	3911
Name	OJ000313_19.0419.C58.o1.np	Method	AAT/NAP
Start	1	End	3911
GI	5852097	Score	700
Exons	1..92, 146..247, 1354..1527, 3751..3911		
GI Descrip.	(AL117264) zwh20.1 [Oryza sativa]		

Seq. No.	56299	Seq. ID	OJ000313_19.0419.C58
Gene No.	117800	Strand	-
Start	6733	End	7046
Name	OJ000313_19.0419.C58.o4.gs	Method	GENSCAN
Start	6733	End	7046
GI	none	Score	.73
Exons	6733..6849, 6864..7046		

Seq. No.	56300	Seq. ID	OJ000313_19.0419.C59
Gene No.	117801	Strand	+
Start	532	End	2305
Name	OJ000313_19.0419.C59.o1.gp	Method	AAT/GAP
Start	532	End	1802
GI	uC-osrocyp010e10b1	Score	879
Exons	532..852, 1608..1802		
GI Descrip.	'5679845/emb CAB51838.1 9.0e-46 (AJ243961) 11332.9 [Oryza sativa]'		

Seq. No.	56300	Seq. ID	OJ000313_19.0419.C59
Gene No.	117801	Strand	+
Start	532	End	2305
Name	OJ000313_19.0419.C59.o1.gs	Method	GENSCAN
Start	645	End	2025
GI	none	Score	.81

Exons 645..852, 1534..1618, 1648..1942, 2014..2025

Seq. No.	56300	Seq. ID	OJ000313_19.0419.C59
Gene No.	117801	Strand	+
Start	532	End	2305
Name	OJ000313_19.0419.C59.ol.ts	Method	TBLASTX:Soybean
Start	668	End	1873
GI	none	Score	134
Exons	668..733, 675..773, 807..857, 812..859, 1607..1741, 1620..1694, 1633..1728, 1793..1870, 1794..1868, 1795..1872, 1796..1873		

Seq. No.	56300	Seq. ID	OJ000313_19.0419.C59
Gene No.	117801	Strand	+
Start	532	End	2305
Name	OJ000313_19.0419.C59.ol.np	Method	AAT/NAP
Start	693	End	2305
GI	5852096	Score	883
Exons	693..852, 1534..1942, 2272..2305		
GI Descrip.	(AL117264) zwh19.1 [Oryza sativa]		

Seq. No.	56300	Seq. ID	OJ000313_19.0419.C59
Gene No.	117801	Strand	+
Start	532	End	2305
Name	OJ000313_19.0419.C59.ol.tc	Method	TBLASTX:Cress
Start	701	End	1882
GI	none	Score	101
Exons	701..814, 705..821, 803..859, 804..854, 1613..1738, 1633..1728, 1795..1881, 1796..1882		

Seq. No.	56300	Seq. ID	OJ000313_19.0419.C59
Gene No.	117801	Strand	+
Start	532	End	2305
Name	OJ000313_19.0419.C59.ol.tm	Method	TBLASTX:Maize
Start	705	End	1882
GI	none	Score	80
Exons	705..773, 804..851, 1596..1712, 1613..1738, 1620..1703, 1633..1728, 1788..1871, 1790..1867, 1795..1881, 1796..1882		

Seq. No.	56300	Seq. ID	OJ000313_19.0419.C59
Gene No.	117801	Strand	+
Start	532	End	2305
Name	OJ000313_19.0419.C59.ol.tw	Method	TBLASTX:Wheat
Start	1622	End	1893
GI	none	Score	131
Exons	1622..1741, 1629..1688, 1633..1740, 1790..1873, 1795..1893, 1796..1876		

Seq. No.	56301	Seq. ID	OJ000313_19.0419.C60
Gene No.	117802	Strand	+
Start	1	End	1287
Name	OJ000313_19.0419.C60.ol.np	Method	AAT/NAP
Start	1	End	1284
GI	5852096	Score	612
Exons	1..21, 852..1284		
GI Descrip.	(AL117264) zwh19.1 [Oryza sativa]		

Seq. No.	56301	Seq. ID	OJ000313_19.0419.C60
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Gene No.	117802	Strand	+
Start	1	End	1287
Name	OJ000313_19.0419.C60.o1.gs	Method	GENSCAN
Start	871	End	1287
GI	none	Score	.96
Exons	871..1287		

Seq. No.	56301	Seq. ID	OJ000313_19.0419.C60
Gene No.	117803	Strand	-
Start	1133	End	1619
Name	OJ000313_19.0419.C60.o1.gp	Method	AAT/GAP
Start	1133	End	1619
GI	50415_1.R1084	Score	919
Exons	1133..1619		
GI Descrip.	'5852096/emb CAB55403.1 7.0e-15 (AL117264) zwh19.1 [Oryza sativa]'		

Seq. No.	56301	Seq. ID	OJ000313_19.0419.C60
Gene No.	117804	Strand	-
Start	3482	End	5253
Name	OJ000313_19.0419.C60.o2.gs	Method	GENSCAN
Start	3482	End	5253
GI	none	Score	.52
Exons	3482..3640,, 3960..4082, 5224..5253		

Seq. No.	56302	Seq. ID	OJ000313_19.0419.C61
Gene No.	117805	Strand	+
Start	1	End	586
Name	OJ000313_19.0419.C61.o1.np	Method	AAT/NAP
Start	1	End	583
GI	5852095	Score	989
Exons	1..583		
GI Descrip.	(AL117264) zwh18.1 [Oryza sativa]		

Seq. No.	56302	Seq. ID	OJ000313_19.0419.C61
Gene No.	117805	Strand	+
Start	1	End	586
Name	OJ000313_19.0419.C61.o1.gs	Method	GENSCAN
Start	89	End	586
GI	none	Score	.97
Exons	89..586		

Seq. No.	56302	Seq. ID	OJ000313_19.0419.C61
Gene No.	117806	Strand	+
Start	4918	End	5761
Name	OJ000313_19.0419.C61.o1.gp	Method	AAT/GAP
Start	4918	End	5761
GI	6012857	Score	527
Exons	4918..5017, 5545..5761		
GI Descrip.	5852077/emb AL117264.1 OSB6015 3.0e-94 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone: b6015		

Seq. No.	56302	Seq. ID	OJ000313_19.0419.C61
Gene No.	117807	Strand	-
Start	684	End	6146
Name	OJ000313_19.0419.C61.o2.gs	Method	GENSCAN
Start	684	End	5801

GI	none	Score	.7
Exons	684..803, 952..1048, 1210..1264, 1490..1611, 2109..2281, 2341..2420, 2761..3084, 3561..3710, 5735..5801		
Seq. No.	56302	Seq. ID	OJ000313_19.0419.C61
Gene No.	117807	Strand	-
Start	684	End	6146
Name	OJ000313_19.0419.C61.o2.np	Method	AAT/NAP
Start	687	End	2890
GI	5852094	Score	934
Exons	687..803, 952..1048, 1490..1611, 1741..1811, 1954..1984, 2246..2420, 2786..2829, 2861..2890		
GI Descrip.	(AL117264) zwh17.1 [Oryza sativa]		
Seq. No.	56302	Seq. ID	OJ000313_19.0419.C61
Gene No.	117807	Strand	-
Start	684	End	6146
Name	OJ000313_19.0419.C61.o3.np	Method	AAT/NAP
Start	3283	End	6146
GI	5852093	Score	1155
Exons	3283..3710, 5735..5804, 5910..6146		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		
Seq. No.	56303	Seq. ID	OJ000313_19.0419.C62
Gene No.	117808	Strand	-
Start	1	End	1499
Name	OJ000313_19.0419.C62.o1.np	Method	AAT/NAP
Start	1	End	1499
GI	5852093	Score	776
Exons	1..199, 406..573, 1287..1499		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		
Seq. No.	56304	Seq. ID	OJ000313_19.0419.C63
Gene No.	117809	Strand	+
Start	74	End	4828
Name	OJ000313_19.0419.C63.o1.gs	Method	GENSCAN
Start	74	End	3920
GI	none	Score	.81
Exons	74..3251, 3574..3920		
Seq. No.	56304	Seq. ID	OJ000313_19.0419.C63
Gene No.	117809	Strand	+
Start	74	End	4828
Name	OJ000313_19.0419.C63.o1.np	Method	AAT/NAP
Start	74	End	4828
GI	5852092	Score	6556
Exons	74..3251, 3528..3987, 4336..4544, 4628..4828		
GI Descrip.	(AL117264) zwh15.1 [Oryza sativa]		
Seq. No.	56304	Seq. ID	OJ000313_19.0419.C63
Gene No.	117810	Strand	+
Start	8575	End	10118
Name	OJ000313_19.0419.C63.o3.np	Method	AAT/NAP
Start	8575	End	10118
GI	5852090	Score	543
Exons	8575..8714, 8916..9132, 10093..10118		
GI Descrip.	(AL117264) zwh13.1 [Oryza sativa]		

Seq. No.	56304	Seq. ID	OJ000313_19.0419.C63
Gene No.	117810	Strand	+
Start	8575	End	10118
Name	OJ000313_19.0419.C63.o2.gp	Method	AAT/GAP
Start	9024	End	9132
GI	27147_1.R1084	Score	177
Exons	9024..9132		
GI Descrip.	'6013206/gb AAF01285.1 AF177990_1 1.0e-47 (AF177990) gamma-soluble NSF attachment protein; gamma-SNAP [Arabidopsis thaliana]'		

Seq. No.	56304	Seq. ID	OJ000313_19.0419.C63
Gene No.	117811	Strand	-
Start	5369	End	7294
Name	OJ000313_19.0419.C63.o2.gs	Method	GENSCAN
Start	5369	End	7110
GI	none	Score	.72
Exons	5369..5458, 5833..5961, 6238..6293, 6834..6897, 7066..7110		

Seq. No.	56304	Seq. ID	OJ000313_19.0419.C63
Gene No.	117811	Strand	-
Start	5369	End	7294
Name	OJ000313_19.0419.C63.o2.np	Method	AAT/NAP
Start	5372	End	7294
GI	5852091	Score	1040
Exons	5372..5458, 5833..6087, 6238..6303, 6393..6458, 6636..6666, 6782..6897, 7184..7294		
GI Descrip.	(AL117264) zwh14.1 [Oryza sativa]		

Seq. No.	56304	Seq. ID	OJ000313_19.0419.C63
Gene No.	117811	Strand	-
Start	5369	End	7294
Name	OJ000313_19.0419.C63.o1.gp	Method	AAT/GAP
Start	6752	End	7034
GI	27647_1.R1084	Score	506
Exons	6752..7034		
GI Descrip.	'5679839/emb CAB51832.1 1.0e-09 (AJ243961) unknown protein [Oryza sativa]'		

Seq. No.	56304	Seq. ID	OJ000313_19.0419.C63
Gene No.	117812	Strand	-
Start	8200	End	8694
Name	OJ000313_19.0419.C63.o1.tc	Method	TBLASTX:Cress
Start	302	End	3680
GI	none	Score	120
Exons	302..514, 332..967, 344..607, 353..751, 380..1039, 416..634, 416..823, 440..1123, 488..895, 512..1192, 575..967, 584..781, 584..1267, 629..850, 635..1327, 656..1039, 704..877, 710..931, 719..1111, 727..828, 728..1399, 773..994, 776..1183, 794..1468, 812..946, 848..1255, 857..1018, 866..1543, 902..1138, 938..1627, 974..1225, 1007..1399, 1016..1687, 1088..1759, 1205..1399, 1208..1615, 1232..1903, 1243..1461, 1295..1687, 1304..1498, 1334..1588, 1367..1759, 1387..1617, 1424..1831, 1424..1663, 1496..1903, 1519..1692, 1525..1704, 1531..1689, 1568..1912, 1631..1834, 1747..1902, 1874..1960, 1940..2080, 1943..2125, 1943..2125, 1943..2134, 1943..2032, 1943..2137, 1943..2134,		

1943..2158, 1943..2125, 1943..2134, 1949..2134, 1958..2134,
 2041..2133, 2135..2344, 2141..2347, 2147..2347, 2153..2404,
 2153..2284, 2188..2403, 2188..2343, 2684..2746, 2798..2878,
 2906..2956, 3005..3160, 3573..3680

Seq. No.	56304	Seq. ID	OJ000313_19.0419.C63
Gene No.	117812	Strand	-
Start	8200	End	8694
Name	OJ000313_19.0419.C63.ol.tw	Method	TBLASTX:Wheat
Start	305	End	2134
GI	none	Score	185
Exons	305..664, 425..736, 569..874, 701..1021, 704..1024, 785..1096, 857..1168, 992..1306, 1070..1384, 1145..1450, 1313..1594, 1326..1433, 1430..1738, 1478..1666, 1649..1903, 1940..2038, 1943..2134, 1943..2110		

Seq. No.	56304	Seq. ID	OJ000313_19.0419.C63
Gene No.	117812	Strand	-
Start	8200	End	8694
Name	OJ000313_19.0419.C63.ol.tm	Method	TBLASTX:Maize
Start	341	End	2423
GI	none	Score	179
Exons	341..625, 353..760, 353..691, 425..895, 431..697, 497..967, 517..882, 563..1027, 566..1039, 569..823, 653..1111, 656..913, 695..1036, 713..1183, 719..967, 728..889, 752..1057, 758..961, 785..1267, 800..1033, 857..1327, 926..1201, 944..1402, 998..1480, 1001..1270, 1073..1327, 1073..1552, 1078..1185, 1084..1404, 1087..1461, 1145..1627, 1211..1462, 1216..1458, 1217..1489, 1229..1384, 1295..1771, 1302..1364, 1304..1561, 1361..1633, 1361..1831, 1384..1833, 1427..1948, 1478..1678, 1494..1526, 1495..1692, 1502..1777, 1641..1673, 1646..1912, 1943..2125, 1943..2134, 1943..2134, 1943..2125, 1943..2134, 1943..2137, 1957..2127, 2009..2134, 2029..2169, 2083..2133, 2135..2344, 2147..2344, 2149..2361, 2153..2347, 2153..2290, 2159..2344, 2176..2277, 2182..2280, 2337..2423		

Seq. No.	56304	Seq. ID	OJ000313_19.0419.C63
Gene No.	117812	Strand	-
Start	8200	End	8694
Name	OJ000313_19.0419.C63.ol.ts	Method	TBLASTX:Soybean
Start	341	End	3695
GI	none	Score	40
Exons	341..418, 341..895, 344..751, 350..850, 374..997, 374..589, 380..1066, 410..823, 440..1126, 458..589, 488..895, 512..1210, 554..967, 584..1282, 638..1357, 656..1039, 674..793, 713..1111, 728..1399, 746..859, 770..1183, 794..1465, 818..922, 848..1255, 866..1576, 920..1333, 938..1642, 1034..1153, 1064..1468, 1069..1182, 1088..1786, 1136..1546, 1208..1615, 1232..1831, 1280..1687, 1361..1762, 1387..1464, 1424..1894, 1447..1617, 1448..1903, 1481..1588, 1519..1764, 1568..1903, 1604..1903, 1916..2134, 1937..2125, 1943..2350, 1943..2134, 1943..2134, 1943..2134, 1943..2125, 2030..2134, 2135..2344, 2141..2272, 2150..2407, 2153..2344, 2249..2344, 2657..2731, 2726..2878, 2906..2956, 3005..3160, 3572..3655, 3573..3695		

Seq. No.	56304	Seq. ID	OJ000313_19.0419.C63
Gene No.	117812	Strand	-

Start	8200	End	8694
Name	OJ000313_19.0419.C63.o3.tm	Method	TBLASTX:Maize
Start	2630	End	3154
GI	none	Score	82
Exons	2630..2737, 2813..2899, 2993..3154		

Seq. No.	56304	Seq. ID	OJ000313_19.0419.C63
Gene No.	117812	Strand	-
Start	8200	End	8694
Name	OJ000313_19.0419.C63.o2.tm	Method	TBLASTX:Maize
Start	5831	End	6965
GI	none	Score	195
Exons	5831..5974, 5833..5973, 5970..6053, 5976..6089, 5980..6090, 5981..6088, 6229..6297, 6242..6298, 6386..6460, 6393..6458, 6541..6585, 6544..6579, 6832..6861, 6874..6906, 6939..6965		

Seq. No.	56304	Seq. ID	OJ000313_19.0419.C63
Gene No.	117812	Strand	-
Start	8200	End	8694
Name	OJ000313_19.0419.C63.o3.gs	Method	GENSCAN
Start	8200	End	8694
GI	none	Score	.63
Exons	8200..8235, 8551..8694		

Seq. No.	56305	Seq. ID	OJ000313_19.0419.C64
Gene No.	117813	Strand	+
Start	1	End	1371
Name	OJ000313_19.0419.C64.o1.gp	Method	AAT/GAP
Start	1	End	601
GI	27147_1.R1084	Score	624
Exons	1..52, 144..228, 313..471, 542..601		
GI Descrip.	'6013206/gb AAF01285.1 AF177990_1 1.0e-47 (AF177990) gamma-soluble NSF attachment protein; gamma-SNAP [Arabidopsis thaliana]'		

Seq. No.	56305	Seq. ID	OJ000313_19.0419.C64
Gene No.	117813	Strand	+
Start	1	End	1371
Name	OJ000313_19.0419.C64.o1.tm	Method	TBLASTX:Maize
Start	1	End	682
GI	none	Score	66
Exons	1..51, 15..50, 17..52, 143..229, 147..227, 157..261, 313..486, 314..469, 540..680, 547..678, 569..682		

Seq. No.	56305	Seq. ID	OJ000313_19.0419.C64
Gene No.	117813	Strand	+
Start	1	End	1371
Name	OJ000313_19.0419.C64.o1.ts	Method	TBLASTX:Soybean
Start	1	End	682
GI	none	Score	60
Exons	1..51, 143..229, 310..465, 312..464, 313..468, 314..472, 317..481, 546..626, 569..625, 618..680, 626..682		

Seq. No.	56305	Seq. ID	OJ000313_19.0419.C64
Gene No.	117813	Strand	+
Start	1	End	1371
Name	OJ000313_19.0419.C64.o1.tc	Method	TBLASTX:Cress

Start	1	End	435
GI	none	Score	55
Exons	1..51, 143..229, 313..435, 314..433		

Seq. No.	56305	Seq. ID	OJ000313_19.0419.C64
Gene No.	117813	Strand	+
Start	1	End	1371
Name	OJ000313_19.0419.C64.o1.np	Method	AAT/NAP
Start	1	End	1371
GI	5852090	Score	485
Exons	1..38, 305..471, 542..682, 1338..1371		
GI Descrip.	(AL117264) zwh13.1 [Oryza sativa]		

Seq. No.	56305	Seq. ID	OJ000313_19.0419.C64
Gene No.	117813	Strand	+
Start	1	End	1371
Name	OJ000313_19.0419.C64.o1.gs	Method	GENSCAN
Start	305	End	1044
GI	none	Score	.66
Exons	305..471, 607..679, 931..1044		

Seq. No.	56306	Seq. ID	OJ000313_19.0419.C66
Gene No.	117814	Strand	-
Start	1	End	1752
Name	OJ000313_19.0419.C66.o1.np	Method	AAT/NAP
Start	1	End	1752
GI	5852098	Score	260
Exons	1..251, 988..1053, 1651..1752		
GI Descrip.	(AL117264) zwh21.1 [Oryza sativa]		

Seq. No.	56306	Seq. ID	OJ000313_19.0419.C66
Gene No.	117814	Strand	-
Start	1	End	1752
Name	OJ000313_19.0419.C66.o1.gs	Method	GENSCAN
Start	104	End	251
GI	none	Score	1
Exons	104..251		

Seq. No.	56307	Seq. ID	OJ000313_19.0419.C67
Gene No.	117815	Strand	-
Start	1	End	965
Name	OJ000313_19.0419.C67.o1.np	Method	AAT/NAP
Start	1	End	965
GI	5852098	Score	157
Exons	1..28, 851..965		
GI Descrip.	(AL117264) zwh21.1 [Oryza sativa]		

Seq. No.	56307	Seq. ID	OJ000313_19.0419.C67
Gene No.	117816	Strand	-
Start	1657	End	1790
Name	OJ000313_19.0419.C67.o2.np	Method	AAT/NAP
Start	1657	End	1790
GI	5852097	Score	157
Exons	1657..1790		
GI Descrip.	(AL117264) zwh20.1 [Oryza sativa]		

Seq. No.	56308	Seq. ID	OJ000313_19.0419.C69
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Gene No. 117817
 Start 64
 Name OJ000313_19.0419.C69.o1.gs
 Start 64
 GI none
 Exons 64..275

Strand +
 End 275
 Method GENSCAN
 End 275
 Score .93

Seq. No. 56308
 Gene No. 117818
 Start 478
 Name OJ000313_19.0419.C69.o2.gs
 Start 478
 GI none
 Exons 478..582

Seq. ID OJ000313_19.0419.C69
 Strand -
 End 931
 Method GENSCAN
 End 582
 Score 1

Seq. No. 56308
 Gene No. 117818
 Start 478
 Name OJ000313_19.0419.C69.o1.np
 Start 481
 GI 5852090
 Exons 481..582, 880..931
 GI Descrip. (AL117264) zwh13.1 [Oryza sativa]

Seq. ID OJ000313_19.0419.C69
 Strand -
 End 931
 Method AAT/NAP
 End 931
 Score 136

Seq. No. 56309
 Gene No. 117819
 Start 1
 Name OJ000313_19.0419.C70.o1.np
 Start 1
 GI 5852082
 Exons 1..168, 272..358, 500..622, 703..813, 928..966, 1065..1219
 GI Descrip. (AL117264) zwh0005.1 [Oryza sativa]

Seq. ID OJ000313_19.0419.C70
 Strand +
 End 1219
 Method AAT/NAP
 End 1219
 Score 679

Seq. No. 56309
 Gene No. 117819
 Start 1
 Name OJ000313_19.0419.C70.o1.tc
 Start 88
 GI none
 Exons 88..168, 323..358, 323..358, 497..622, 497..622, 499..618, 700..765, 700..789, 717..755, 766..816, 1070..1138, 1080..1139, 1080..1139

Seq. ID OJ000313_19.0419.C70
 Strand +
 End 1219
 Method TBLASTX:Cress
 End 1139
 Score 93

Seq. No. 56309
 Gene No. 117819
 Start 1
 Name OJ000313_19.0419.C70.o1.ts
 Start 94
 GI none
 Exons 94..171, 94..168, 266..358, 271..351, 497..622, 499..630, 499..621, 500..622, 528..623, 700..774, 701..778, 702..779, 702..779

Seq. ID OJ000313_19.0419.C70
 Strand +
 End 1219
 Method TBLASTX:Soybean
 End 779
 Score 116

Seq. No. 56309
 Gene No. 117819
 Start 1
 Name OJ000313_19.0419.C70.o1.gp

Seq. ID OJ000313_19.0419.C70
 Strand +
 End 1219
 Method AAT/GAP

Start	97	End	979
GI	4968791	Score	641
Exons	97..168, 272..358, 500..622, 703..813, 929..979		
GI Descrip.	5852082/emb CAB55389.1 2.0e-62 (AL117264) zwh0005.1 [Oryza sativa]		

Seq. No.	56309	Seq. ID	OJ000313_19.0419.C70
Gene No.	117819	Strand	+
Start	1	End	1219
Name	OJ000313_19.0419.C70.ol.gs	Method	GENSCAN
Start	97	End	966
GI	none	Score	.86
Exons	97..168, 272..358, 500..622, 703..813, 928..966		

Seq. No.	56309	Seq. ID	OJ000313_19.0419.C70
Gene No.	117819	Strand	+
Start	1	End	1219
Name	OJ000313_19.0419.C70.ol.tw	Method	TBLASTX:Wheat
Start	574	End	1139
GI	none	Score	85
Exons	574..624, 574..621, 576..623, 700..816, 700..807, 701..808, 702..809, 920..967, 920..967, 921..1019, 928..972, 1060..1137, 1064..1138, 1080..1139		

Seq. No.	56309	Seq. ID	OJ000313_19.0419.C70
Gene No.	117819	Strand	+
Start	1	End	1219
Name	OJ000313_19.0419.C70.ol.tm	Method	TBLASTX:Maize
Start	595	End	1139
GI	none	Score	46
Exons	595..621, 596..622, 700..816, 700..807, 702..809, 927..968, 927..962, 928..972, 1064..1120, 1064..1138, 1080..1139		

Seq. No.	56310	Seq. ID	OJ000313_19.0419.C71
Gene No.	117820	Strand	-
Start	1	End	122
Name	OJ000313_19.0419.C71.ol.np	Method	AAT/NAP
Start	1	End	122
GI	5852099	Score	149
Exons	1..122		
GI Descrip.	(AL117264) zwh22.1 [Oryza sativa]		

Seq. No.	56311	Seq. ID	OJ000313_19.0419.C72
Gene No.	117821	Strand	+
Start	415	End	757
Name	OJ000313_19.0419.C72.ol.gp	Method	AAT/GAP
Start	415	End	757
GI	LIB3433-029-P1-K1-D8	Score	682
Exons	415..757		
GI Descrip.	'5852077/emb AL117264.1 OSB6015 1.0e-108 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone: b6015'		

Seq. No.	56311	Seq. ID	OJ000313_19.0419.C72
Gene No.	117822	Strand	-
Start	715	End	1284
Name	OJ000313_19.0419.C72.ol.gs	Method	GENSCAN
Start	715	End	1218

GI	none	Score	.94
Exons	715..1218		
Seq. No.	56311	Seq. ID	OJ000313_19.0419.C72
Gene No.	117822	Strand	-
Start	715	End	1284
Name	OJ000313_19.0419.C72.o1.np	Method	AAT/NAP
Start	718	End	1284
GI	5852085	Score	797
Exons	718..1284		
GI Descrip.	(AL117264) zwh0008.1 [Oryza sativa]		

Seq. No.	56312	Seq. ID	OJ000313_19.0419.C73
Gene No.	117823	Strand	+
Start	52	End	2098
Name	OJ000313_19.0419.C73.o1.gs	Method	GENSCAN
Start	52	End	2098
GI	none	Score	.46
Exons	52..98, 231..357, 2000..2098		

Seq. No.	56312	Seq. ID	OJ000313_19.0419.C73
Gene No.	117824	Strand	-
Start	1	End	179
Name	OJ000313_19.0419.C73.o1.np	Method	AAT/NAP
Start	1	End	179
GI	5852085	Score	208
Exons	1..179		
GI Descrip.	(AL117264) zwh0008.1 [Oryza sativa]		

Seq. No.	56313	Seq. ID	OJ000313_19.0419.C74
Gene No.	117825	Strand	+
Start	552	End	679
Name	OJ000313_19.0419.C74.o1.np	Method	AAT/NAP
Start	552	End	679
GI	5852086	Score	206
Exons	552..679		
GI Descrip.	(AL117264) zwh0009.1 [Oryza sativa]		

Seq. No.	56313	Seq. ID	OJ000313_19.0419.C74
Gene No.	117826	Strand	-
Start	910	End	986
Name	OJ000313_19.0419.C74.o1.gp	Method	AAT/GAP
Start	910	End	986
GI	LIB3477-003-P1-K1-E9	Score	97
Exons	910..986		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	56314	Seq. ID	OJ000313_19.0419.C77
Gene No.	117827	Strand	+
Start	1	End	536
Name	OJ000313_19.0419.C77.o1.np	Method	AAT/NAP
Start	1	End	536
GI	5852083	Score	306
Exons	1..159, 424..536		
GI Descrip.	(AL117264) zwh0006.1 [Oryza sativa]		

Seq. No.	56314	Seq. ID	OJ000313_19.0419.C77
Gene No.	117828	Strand	-
Start	645	End	823
Name	OJ000313_19.0419.C77.ol.gs	Method	GENSCAN
Start	645	End	823
GI	none	Score	.42
Exons	645..823		

Seq. No.	56315	Seq. ID	OJ000313_19.0419.C81
Gene No.	117829	Strand	+
Start	1	End	733
Name	OJ000313_19.0419.C81.ol.np	Method	AAT/NAP
Start	1	End	733
GI	5679844	Score	1321
Exons	1..733		
GI Descrip.	(AJ243961) 11332.8 [Oryza sativa]		

Seq. No.	56315	Seq. ID	OJ000313_19.0419.C81
Gene No.	117830	Strand	+
Start	2085	End	2202
Name	OJ000313_19.0419.C81.o2.gp	Method	AAT/GAP
Start	2085	End	2202
GI	51490_1.R1084	Score	217
Exons	2085..2202		
GI Descrip.	'5679843/emb CAB51836.1 6.0e-52 (AJ243961) Putitive Ser/Thr protein kinase [Oryza sativa]'		

Seq. No.	56315	Seq. ID	OJ000313_19.0419.C81
Gene No.	117831	Strand	-
Start	454	End	981
Name	OJ000313_19.0419.C81.ol.gp	Method	AAT/GAP
Start	454	End	981
GI	37045_1.R1084	Score	995
Exons	454..981		
GI Descrip.	'5679844/emb CAB51837.1 2.0e-47 (AJ243961) 11332.8 [Oryza sativa]'		

Seq. No.	56315	Seq. ID	OJ000313_19.0419.C81
Gene No.	117832	Strand	-
Start	1762	End	2202
Name	OJ000313_19.0419.C81.ol.ts	Method	TBLASTX:Soybean
Start	1	End	745
GI	none	Score	776
Exons	1..651, 2..652, 32..652, 653..745, 655..735		

Seq. No.	56315	Seq. ID	OJ000313_19.0419.C81
Gene No.	117832	Strand	-
Start	1762	End	2202
Name	OJ000313_19.0419.C81.ol.tc	Method	TBLASTX:Cress
Start	23	End	382
GI	none	Score	290
Exons	23..298, 37..294, 316..372, 317..382		

Seq. No.	56315	Seq. ID	OJ000313_19.0419.C81
Gene No.	117832	Strand	-
Start	1762	End	2202

Name	OJ000313_19.0419.C81.o1.tm	Method	TBLASTX:Maize
Start	35	End	942
GI	none	Score	77
Exons	35..232, 160..750, 161..751, 161..751, 766..855, 767..853, 848..871, 883..942, 888..926		

Seq. No.	56315	Seq. ID	OJ000313_19.0419.C81
Gene No.	117832	Strand	-
Start	1762	End	2202
Name	OJ000313_19.0419.C81.o1.tw	Method	TBLASTX:Wheat
Start	152	End	442
GI	none	Score	293
Exons	152..421, 169..432, 170..442		

Seq. No.	56315	Seq. ID	OJ000313_19.0419.C81
Gene No.	117832	Strand	-
Start	1762	End	2202
Name	OJ000313_19.0419.C81.o2.tc	Method	TBLASTX:Cress
Start	383	End	742
GI	none	Score	243
Exons	383..643, 406..642, 686..742		

Seq. No.	56315	Seq. ID	OJ000313_19.0419.C81
Gene No.	117832	Strand	-
Start	1762	End	2202
Name	OJ000313_19.0419.C81.o2.tw	Method	TBLASTX:Wheat
Start	496	End	739
GI	none	Score	68
Exons	496..612, 514..645, 515..646, 677..739		

Seq. No.	56315	Seq. ID	OJ000313_19.0419.C81
Gene No.	117832	Strand	-
Start	1762	End	2202
Name	OJ000313_19.0419.C81.o2.gs	Method	GENSCAN
Start	1762	End	1978
GI	none	Score	54
Exons	1762..1978		

Seq. No.	56315	Seq. ID	OJ000313_19.0419.C81
Gene No.	117832	Strand	-
Start	1762	End	2202
Name	OJ000313_19.0419.C81.o2.np	Method	AAT/NAP
Start	1765	End	2202
GI	5852099	Score	345
Exons	1765..2022, 2178..2202		
GI Descrip.	(AL117264) zwh22.1 [Oryza sativa]		

Seq. No.	56316	Seq. ID	OJ000313_19.0419.C82
Gene No.	117833	Strand	-
Start	1	End	2158
Name	OJ000313_19.0419.C82.o1.gp	Method	AAT/GAP
Start	1	End	330
GI	uC-osrocyp028a03b1	Score	389
Exons	1..131, 216..330		
GI Descrip.	'5679843/emb CAB51836.1 3.0e-47 (AJ243961) Putitive Ser/Thr protein kinase [Oryza sativa]'		

Seq. No.	56316	Seq. ID	OJ000313_19.0419.C82
Gene No.	117833	Strand	-
Start	1	End	2158
Name	OJ000313_19.0419.C82.o1.np	Method	AAT/NAP
Start	1	End	2158
GI	5852099	Score	1169
Exons	1..131, 216..328, 401..453, 572..782, 873..979, 1076..1104, 1962..2158		

GI Descrip. (AL117264) zwh22.1 [Oryza sativa]

Seq. No.	56316	Seq. ID	OJ000313_19.0419.C82
Gene No.	117833	Strand	-
Start	1	End	2158
Name	OJ000313_19.0419.C82.o1.tm	Method	TBLASTX:Maize
Start	2	End	981
GI	none	Score	135
Exons	2..130, 3..131, 215..451, 219..443, 224..451, 573..791, 580..783, 582..794, 583..792, 871..924, 873..980, 880..981		

Seq. No.	56316	Seq. ID	OJ000313_19.0419.C82
Gene No.	117833	Strand	-
Start	1	End	2158
Name	OJ000313_19.0419.C82.o1.ts	Method	TBLASTX:Soybean
Start	21	End	971
GI	none	Score	78
Exons	21..131, 23..130, 216..431, 218..454, 570..791, 571..783, 862..912, 873..971, 874..942		

Seq. No.	56316	Seq. ID	OJ000313_19.0419.C82
Gene No.	117833	Strand	-
Start	1	End	2158
Name	OJ000313_19.0419.C82.o1.tc	Method	TBLASTX:Cress
Start	32	End	959
GI	none	Score	60
Exons	32..130, 215..436, 270..398, 559..591, 576..758, 873..959		

Seq. No.	56316	Seq. ID	OJ000313_19.0419.C82
Gene No.	117833	Strand	-
Start	1	End	2158
Name	OJ000313_19.0419.C82.o2.tw	Method	TBLASTX:Wheat
Start	32	End	356
GI	none	Score	64
Exons	32..130, 33..239, 215..355, 219..356		

Seq. No.	56316	Seq. ID	OJ000313_19.0419.C82
Gene No.	117833	Strand	-
Start	1	End	2158
Name	OJ000313_19.0419.C82.o1.gs	Method	GENSCAN
Start	95	End	2128
GI	none	Score	.93
Exons	95..131, 216..453, 572..782, 873..979, 1076..1104, 1962..2128		

Seq. No.	56316	Seq. ID	OJ000313_19.0419.C82
Gene No.	117833	Strand	-
Start	1	End	2158
Name	OJ000313_19.0419.C82.o1.tw	Method	TBLASTX:Wheat
Start	365	End	897

GI	none	Score	79
Exons	365...451, 365...460, 372...455, 567...800, 571...783, 874...897		
Seq. No.	56316	Seq. ID	OJ000313_19.0419.C82
Gene No.	117833	Strand	-
Start	1	End	2158
Name	OJ000313_19.0419.C82.o2.gp	Method	AAT/GAP
Start	1026	End	1198
GI	4715514	Score	213
Exons	1026...1198		
GI Descrip.	5852077/emb AL117264.1 OSB6015 1.0e-44 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone: b6015		

Seq. No.	56317	Seq. ID	OJ000313_19.0419.C83
Gene No.	117834	Strand	-
Start	636	End	859
Name	OJ000313_19.0419.C83.o1.np	Method	AAT/NAP
Start	636	End	859
GI	5852099	Score	262
Exons	636...859		
GI Descrip.	(AL117264) zwh22.1 [Oryza sativa]		

Seq. No.	56318	Seq. ID	OJ000313_19.0419.C84
Gene No.	117835	Strand	+
Start	355	End	1559
Name	OJ000313_19.0419.C84.o1.gs	Method	GENSCAN
Start	355	End	1530
GI	none	Score	.74
Exons	355...624, 1045...1530		

Seq. No.	56318	Seq. ID	OJ000313_19.0419.C84
Gene No.	117835	Strand	+
Start	355	End	1559
Name	OJ000313_19.0419.C84.o1.np	Method	AAT/NAP
Start	355	End	1559
GI	5852082	Score	1286
Exons	355...624, 1045...1559		
GI Descrip.	(AL117264) zwh0005.1 [Oryza sativa]		

Seq. No.	56319	Seq. ID	OJ000403_13.0421.C1
Gene No.	117836	Strand	+
Start	1	End	2862
Name	OJ000403_13.0421.C1.o1.np	Method	AAT/NAP
Start	1	End	2802
GI	7415941	Score	449
Exons	1...421, 1092...1499, 1964...2090, 2362...2802		
GI Descrip.	(AB013451) NBS-LRR type resistance gene [Oryza sativa]		

Seq. No.	56319	Seq. ID	OJ000403_13.0421.C1
Gene No.	117836	Strand	+
Start	1	End	2862
Name	OJ000403_13.0421.C1.o1.gs	Method	GENSCAN
Start	335	End	2862
GI	none	Score	.78
Exons	335...372, 638...982, 1148...1612, 2268...2862		

Seq. No.	56319	Seq. ID	OJ000403_13.0421.C1
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Gene No.	117837	Strand	-
Start	4873	End	5394
Name	OJ000403_13.0421.C1.o2.gs	Method	GENSCAN
Start	4873	End	5394
GI	none	Score	.51
Exons	4873..5394		

Seq. No.	56319	Seq. ID	OJ000403_13.0421.C1
Gene No.	117838	Strand	-
Start	5788	End	7469
Name	OJ000403_13.0421.C1.o1.tm	Method	TBLASTX:Maize
Start	1121	End	1481
GI	none	Score	99
Exons	1121..1246, 1122..1364, 1130..1249, 1146..1364, 1147..1365, 1362..1481, 1373..1480		

Seq. No.	56319	Seq. ID	OJ000403_13.0421.C1
Gene No.	117838	Strand	-
Start	5788	End	7469
Name	OJ000403_13.0421.C1.o1.tw	Method	TBLASTX:Wheat
Start	1134	End	1493
GI	none	Score	149
Exons	1134..1271, 1135..1266, 1275..1358, 1353..1457, 1362..1457, 1445..1492, 1446..1493		

Seq. No.	56319	Seq. ID	OJ000403_13.0421.C1
Gene No.	117838	Strand	-
Start	5788	End	7469
Name	OJ000403_13.0421.C1.o2.tm	Method	TBLASTX:Maize
Start	3908	End	4628
GI	none	Score	97
Exons	3908..4090, 3950..4087, 3971..4075, 3978..4085, 3980..4129, 3983..4078, 3986..4078, 4080..4127, 4097..4150, 4109..4150, 4113..4205, 4127..4180, 4138..4212, 4148..4291, 4179..4292, 4179..4295, 4179..4301, 4184..4303, 4185..4286, 4185..4304, 4188..4292, 4189..4314, 4196..4318, 4200..4325, 4314..4427, 4317..4424, 4317..4424, 4326..4439, 4333..4428, 4341..4424, 4341..4433, 4342..4425, 4343..4462, 4343..4447, 4349..4477, 4354..4470, 4357..4425, 4357..4455, 4357..4443, 4465..4569, 4466..4585, 4469..4588, 4469..4618, 4494..4628, 4496..4588, 4504..4572, 4538..4603		

Seq. No.	56319	Seq. ID	OJ000403_13.0421.C1
Gene No.	117838	Strand	-
Start	5788	End	7469
Name	OJ000403_13.0421.C1.o2.np	Method	AAT/NAP
Start	5788	End	7434
GI	7489684	Score	132
Exons	5788..5816, 7052..7434		
GI Descrip.	probable low-affinity cation transport protein - wheat gi 2460044 gb AAB71851.1 (AF015523) low-affinity cation transporter [Triticum aestivum]		

Seq. No.	56319	Seq. ID	OJ000403_13.0421.C1
Gene No.	117838	Strand	-
Start	5788	End	7469
Name	OJ000403_13.0421.C1.o3.gs	Method	GENSCAN

Start 7071
GI none
Exons 7071..7469

End 7469
Score .45

Seq. No. 56320
Gene No. 117839
Start 859
Name OJ000403_13.0421.C2.o1.gs
Start 859
GI none
Exons 859..1049, 1469..1614, 1737..2001, 2607..3343, 3674..3760, 4315..4430, 4785..4893, 5059..5221, 5626..5788

Seq. ID OJ000403_13.0421.C2
Strand +
End 5788
Method GENSCAN
End 5788
Score .54

Seq. No. 56320
Gene No. 117839
Start 859
Name OJ000403_13.0421.C2.o1.np
Start 4373
GI 6721556
Exons 4373..4694, 4999..5410
GI Descrip. (AP001073) hypothetical protein [Oryza sativa]
gi|6815081|dbj|BAA90367.1| (AP001081) hypothetical protein [Oryza sativa]

Seq. ID OJ000403_13.0421.C2
Strand +
End 5788
Method AAT/NAP
End 5410
Score 197

Seq. No. 56320
Gene No. 117840
Start 5890
Name OJ000403_13.0421.C2.o2.gs
Start 5890
GI none
Exons 5890..6111

Seq. ID OJ000403_13.0421.C2
Strand -
End 6111
Method GENSCAN
End 6111
Score .95

Seq. No. 56321
Gene No. 117841
Start 10
Name OJ000403_13.0421.C3.o1.gs
Start 10
GI none
Exons 10..386, 828..906, 1202..1336

Seq. ID OJ000403_13.0421.C3
Strand -
End 1336
Method GENSCAN
End 1336
Score .45

Seq. No. 56322
Gene No. 117842
Start 470
Name OJ000403_13.0421.C4.o1.gs
Start 470
GI none
Exons 470..738

Seq. ID OJ000403_13.0421.C4
Strand +
End 738
Method GENSCAN
End 738
Score .41

Seq. No. 56322
Gene No. 117843
Start 3872
Name OJ000403_13.0421.C4.o2.np
Start 3872
GI 5042463
Exons 3872..3895, 5103..5291
GI Descrip. (AC007789) unknown protein [Oryza sativa]

Seq. ID OJ000403_13.0421.C4
Strand +
End 5291
Method AAT/NAP
End 5291
Score 99

Seq. No.	56322	Seq. ID	OJ000403_13.0421.C4
Gene No.	117844	Strand	-
Start	1	End	3769
Name	OJ000403_13.0421.C4.o1.np	Method	AAT/NAP
Start	1	End	3687
GI	7485956	Score	506
Exons	1..193, 1889..2064, 2373..2487, 2574..3050, 3096..3399, 3485..3687		
GI Descrip.	hypothetical protein F22I13.210 - Arabidopsis thaliana gi 4539352 emb CAB37500.1 (AL035539) putative protein [Arabidopsis thaliana] gi 7270828 emb CAB80509.1 (AL161593) putative protein [Arabidopsis thaliana]		

Seq. No.	56322	Seq. ID	OJ000403_13.0421.C4
Gene No.	117844	Strand	-
Start	1	End	3769
Name	OJ000403_13.0421.C4.o2.gs	Method	GENSCAN
Start	1138	End	3769
GI	none	Score	.79
Exons	1138..1153, 1889..2023, 2413..2530, 2694..3399, 3506..3769		

Seq. No.	56322	Seq. ID	OJ000403_13.0421.C4
Gene No.	117845	Strand	-
Start	4712	End	5304
Name	OJ000403_13.0421.C4.o3.gs	Method	GENSCAN
Start	4712	End	5304
GI	none	Score	.6
Exons	4712..4946, 5252..5304		

Seq. No.	56323	Seq. ID	OJ000403_13.0421.C5
Gene No.	117846	Strand	+
Start	568	End	1121
Name	OJ000403_13.0421.C5.o1.np	Method	AAT/NAP
Start	568	End	1121
GI	7228450	Score	314
Exons	568..653, 794..933, 1018..1121		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	56323	Seq. ID	OJ000403_13.0421.C5
Gene No.	117847	Strand	-
Start	163	End	1004
Name	OJ000403_13.0421.C5.o1.gs	Method	GENSCAN
Start	163	End	1004
GI	none	Score	.43
Exons	163..321, 889..1004		

Seq. No.	56324	Seq. ID	OJ000403_13.0421.C6
Gene No.	117848	Strand	-
Start	490	End	615
Name	OJ000403_13.0421.C6.o1.gs	Method	GENSCAN
Start	490	End	615
GI	none	Score	.83
Exons	490..615		

Seq. No.	56325	Seq. ID	OJ000403_13.0421.C7
Gene No.	117849	Strand	-
Start	197	End	672

Name	OJ000403_13.0421.C7.ol.gs	Method	GENSCAN
Start	197	End	672
GI	none	Score	.65
Exons	197..429, 494..672		
Seq. No.	56326	Seq. ID	OJ000403_13.0421.C8
Gene No.	117850	Strand	
Start	1825	End	2576
Name	OJ000403_13.0421.C8.ol.ts	Method	TBLASTX:Soybean
Start	1825	End	2199
GI	none	Score	199
Exons	1825..2199		
Seq. No.	56326	Seq. ID	OJ000403_13.0421.C8
Gene No.	117850	Strand	
Start	1825	End	2576
Name	OJ000403_13.0421.C8.ol.tc	Method	TBLASTX:Cress
Start	1891	End	2211
GI	none	Score	182
Exons	1891..2211		
Seq. No.	56326	Seq. ID	OJ000403_13.0421.C8
Gene No.	117850	Strand	
Start	1825	End	2576
Name	OJ000403_13.0421.C8.ol.tm	Method	TBLASTX:Maize
Start	1897	End	2510
GI	none	Score	271
Exons	1897..2211, 1917..2207, 2220..2510		
Seq. No.	56326	Seq. ID	OJ000403_13.0421.C8
Gene No.	117850	Strand	
Start	1825	End	2576
Name	OJ000403_13.0421.C8.ol.tw	Method	TBLASTX:Wheat
Start	2322	End	2576
GI	none	Score	175
Exons	2322..2576		
Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117851	Strand	+
Start	1	End	1839
Name	OJ000403_13.0421.C9.ol.np	Method	AAT/NAP
Start	1	End	1391
GI	7340723	Score	188
Exons	1..264, 1325..1391		
GI Descrip.	(AL162507) putative protein [Arabidopsis thaliana]		
Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117851	Strand	+
Start	1	End	1839
Name	OJ000403_13.0421.C9.ol.gs	Method	GENSCAN
Start	228	End	1839
GI	none	Score	.64
Exons	228..306, 1428..1574, 1625..1839		
Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117852	Strand	+
Start	8674	End	11613

Name	OJ000403_13.0421.C9.o3.np	Method	AAT/NAP
Start	8674	End	11610
GI	6691716	Score	2311
Exons	8674..9558, 9756..9931, 10013..10280, 10456..10650, 10726..10825, 10976..11092, 11165..11610		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gil 6691717 dbj BAA89397.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117852	Strand	+
Start	8674	End	11613
Name	OJ000403_13.0421.C9.o4.gs	Method	GENSCAN
Start	8674	End	11613
GI	none	Score	.92
Exons	8674..9558, 9756..9931, 10013..10377, 10463..10650, 10726..10915, 10988..11092, 11165..11613		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117853	Strand	-
Start	2201	End	4615
Name	OJ000403_13.0421.C9.o2.np	Method	AAT/NAP
Start	2201	End	4615
GI	479356	Score	1961
Exons	2201..4615		
GI Descrip.	protein kinase PK1 (EC 2.7.1.-), receptor-like - maize		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117854	Strand	-
Start	6633	End	7696
Name	OJ000403_13.0421.C9.o3.gs	Method	GENSCAN
Start	6633	End	7696
GI	none	Score	.49
Exons	6633..7221, 7629..7696		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117854	Strand	-
Start	6633	End	7696
Name	OJ000403_13.0421.C9.o1.gp	Method	AAT/GAP
Start	6912	End	7373
GI	uC-osflcyp177g01a1	Score	241
Exons	6912..6930, 7221..7373		
GI Descrip.	'4884864/gb AAD31846.1 AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o4.tm	Method	TBLASTX:Maize
Start	9	End	263
GI	none	Score	68
Exons	9..158, 28..168, 78..158, 79..159, 161..262, 162..263		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o1.tc	Method	TBLASTX:Cress

Start	2201	End	4214
GI	none	Score	88
Exons	2201..2362, 2418..2579, 2462..2587, 2591..2803, 2691..2783, 2810..2989, 2826..2996, 3012..3086, 3458..3541, 3650..3856, 4076..4213, 4077..4214		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o2.tm	Method	TBLASTX:Maize
Start	2426	End	3184
GI	none	Score	68
Exons	2426..2584, 2469..2573, 2612..2749, 2612..2971, 2972..3046, 3026..3184		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o1.ts	Method	TBLASTX:Soybean
Start	2453	End	3046
GI	none	Score	77
Exons	2453..2959, 2960..3046		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o1.tw	Method	TBLASTX:Wheat
Start	2516	End	2936
GI	none	Score	197
Exons	2516..2797, 2517..2786, 2807..2935, 2808..2936		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o5.tw	Method	TBLASTX:Wheat
Start	8794	End	9084
GI	none	Score	211
Exons	8794..9084		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o5.gs	Method	GENSCAN
Start	11930	End	13774
GI	none	Score	.82
Exons	11930..13774		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o4.np	Method	AAT/NAP
Start	11933	End	13807
GI	5902445	Score	3251
Exons	11933..13807		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
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Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o4.tw	Method	TBLASTX:Wheat
Start	11942	End	12556
GI	none	Score	62
Exons	11942..12079, 11946..12068, 12065..12223, 12278..12556, 12294..12395, 12447..12536		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o3.tm	Method	TBLASTX:Maize
Start	11981	End	12214
GI	none	Score	102
Exons	11981..12082, 11982..12083, 12062..12214, 12063..12113		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o6.tm	Method	TBLASTX:Maize
Start	12326	End	12599
GI	none	Score	61
Exons	12326..12412, 12422..12505, 12435..12509, 12492..12599, 12500..12598		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o2.tw	Method	TBLASTX:Wheat
Start	12671	End	13058
GI	none	Score	106
Exons	12671..12862, 12671..13057, 12747..13058		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o1.tm	Method	TBLASTX:Maize
Start	12701	End	13063
GI	none	Score	67
Exons	12701..12748, 12702..12749, 12729..13043, 12740..13063, 12753..13043		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o6.tw	Method	TBLASTX:Wheat
Start	13061	End	13360
GI	none	Score	134
Exons	13061..13201, 13226..13360		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o3.tw	Method	TBLASTX:Wheat
Start	13376	End	13798
GI	none	Score	271
Exons	13376..13798, 13386..13790		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o2.ts	Method	TBLASTX:Soybean
Start	13419	End	13807
GI	none	Score	170
Exons	13419..13799, 13421..13663, 13703..13807		

Seq. No.	56327	Seq. ID	OJ000403_13.0421.C9
Gene No.	117855	Strand	-
Start	11930	End	13807
Name	OJ000403_13.0421.C9.o5.tm	Method	TBLASTX:Maize
Start	13472	End	13745
GI	none	Score	66
Exons	13472..13570, 13473..13538, 13574..13744, 13575..13745		

Seq. No.	56328	Seq. ID	OJ000403_13.0421.C10
Gene No.	117856	Strand	-
Start	112	End	2318
Name	OJ000403_13.0421.C10.o2.tm	Method	TBLASTX:Maize
Start	1	End	324
GI	none	Score	143
Exons	1..324, 14..220		

Seq. No.	56328	Seq. ID	OJ000403_13.0421.C10
Gene No.	117856	Strand	-
Start	112	End	2318
Name	OJ000403_13.0421.C10.o2.ts	Method	TBLASTX:Soybean
Start	13	End	189
GI	none	Score	122
Exons	13..189, 29..172		

Seq. No.	56328	Seq. ID	OJ000403_13.0421.C10
Gene No.	117856	Strand	-
Start	112	End	2318
Name	OJ000403_13.0421.C10.o2.tw	Method	TBLASTX:Wheat
Start	64	End	483
GI	none	Score	242
Exons	64..483, 65..481		

Seq. No.	56328	Seq. ID	OJ000403_13.0421.C10
Gene No.	117856	Strand	-
Start	112	End	2318
Name	OJ000403_13.0421.C10.o1.gs	Method	GENSCAN
Start	112	End	2255
GI	none	Score	.63
Exons	112..809, 942..2255		

Seq. No.	56328	Seq. ID	OJ000403_13.0421.C10
Gene No.	117856	Strand	-
Start	112	End	2318
Name	OJ000403_13.0421.C10.o1.tm	Method	TBLASTX:Maize
Start	352	End	708
GI	none	Score	98
Exons	352..645, 352..708, 362..667		

Seq. No.	56328	Seq. ID	OJ000403_13.0421.C10
Gene No.	117856	Strand	-
Start	112	End	2318
Name	OJ000403_13.0421.C10.o1.ts	Method	TBLASTX:Soybean
Start	433	End	798
GI	none	Score	138
Exons	433..567, 574..798		

Seq. No.	56328	Seq. ID	OJ000403_13.0421.C10
Gene No.	117856	Strand	-
Start	112	End	2318
Name	OJ000403_13.0421.C10.o3.tw	Method	TBLASTX:Wheat
Start	483	End	717
GI	none	Score	135
Exons	483..647, 484..696, 484..717, 485..697		

Seq. No.	56328	Seq. ID	OJ000403_13.0421.C10
Gene No.	117856	Strand	-
Start	112	End	2318
Name	OJ000403_13.0421.C10.o1.tw	Method	TBLASTX:Wheat
Start	718	End	1515
GI	none	Score	116
Exons	718..1011, 722..946, 1058..1294, 1060..1290, 1339..1515, 1345..1452		

Seq. No.	56328	Seq. ID	OJ000403_13.0421.C10
Gene No.	117856	Strand	-
Start	112	End	2318
Name	OJ000403_13.0421.C10.o1.np	Method	AAT/NAP
Start	850	End	2318
GI	5902444	Score	2441
Exons	850..2318		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	56328	Seq. ID	OJ000403_13.0421.C10
Gene No.	117856	Strand	-
Start	112	End	2318
Name	OJ000403_13.0421.C10.o3.tm	Method	TBLASTX:Maize
Start	1060	End	1207
GI	none	Score	125
Exons	1060..1206, 1061..1207		

Seq. No.	56328	Seq. ID	OJ000403_13.0421.C10
Gene No.	117856	Strand	-
Start	112	End	2318
Name	OJ000403_13.0421.C10.o4.tw	Method	TBLASTX:Wheat
Start	1957	End	2307
GI	none	Score	73
Exons	1957..2307, 2186..2305		

Seq. No.	56329	Seq. ID	OJ000403_13.0421.C11
Gene No.	117857	Strand	+
Start	5288	End	5675
Name	OJ000403_13.0421.C11.o3.gs	Method	GENSCAN
Start	5288	End	5675
GI	none	Score	.93
Exons	5288..5408, 5479..5675		

Seq. No.	56329	Seq. ID	OJ000403_13.0421.C11
Gene No.	117858	Strand	+
Start	8106	End	8526
Name	OJ000403_13.0421.C11.o1.gp	Method	AAT/GAP
Start	8106	End	8526
GI	uC-osflcyp123a03b1	Score	724
Exons	8106..8526		
GI Descrip.	'1346396/sp P17801 KPRO_MAIZE 1.0e-11 PUTATIVE RECEPTOR PROTEIN KINASE ZMPK1 PRECURSOR >gi_100913_pir_S10930 probable receptor protein kinase (EC 2.7.1.-) precursor - maize >gi_22432_emb_CAA36611_(X52384) precursor protein (AA -26 to 791) [Zea mays] >gi_22436_emb_CAA47962_(X67733) receptor-like protein kinase [Zea mays] >gi_226927_prf_1611404A receptor protein kinase [Zea ma'		

Seq. No.	56329	Seq. ID	OJ000403_13.0421.C11
Gene No.	117859	Strand	-
Start	1	End	1212
Name	OJ000403_13.0421.C11.o1.np	Method	AAT/NAP
Start	1	End	1212
GI	4680183	Score	1921
Exons	1..1212		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	56329	Seq. ID	OJ000403_13.0421.C11
Gene No.	117860	Strand	-
Start	2433	End	4560
Name	OJ000403_13.0421.C11.o2.gs	Method	GENSCAN
Start	2433	End	4560
GI	none	Score	.72
Exons	2433..3020, 3121..3497, 4464..4560		

Seq. No.	56329	Seq. ID	OJ000403_13.0421.C11
Gene No.	117861	Strand	-
Start	6061	End	8481
Name	OJ000403_13.0421.C11.o2.np	Method	AAT/NAP
Start	6061	End	8481
GI	479356	Score	1900
Exons	6061..8481		
GI Descrip.	protein kinase PK1 (EC 2.7.1.-), receptor-like - maize		

Seq. No.	56329	Seq. ID	OJ000403_13.0421.C11
Gene No.	117861	Strand	-
Start	6061	End	8481
Name	OJ000403_13.0421.C11.o1.tc	Method	TBLASTX:Cress
Start	6097	End	8092
GI	none	Score	94
Exons	6097..6201, 6322..6447, 6329..6439, 6451..6663, 6476..6622, 6670..6849, 6731..6850, 6824..6946, 7552..7734, 7954..8091, 7955..8092		

Seq. No.	56329	Seq. ID	OJ000403_13.0421.C11
Gene No.	117861	Strand	-
Start	6061	End	8481
Name	OJ000403_13.0421.C11.o1.tm	Method	TBLASTX:Maize
Start	6334	End	6906

GI none Score 86
Exons 6334..6642, 6335..6493, 6655..6804, 6814..6906

Seq. No. 56329 Seq. ID OJ000403_13.0421.C11
Gene No. 117861 Strand -
Start 6061 End 8481
Name OJ000403_13.0421.C11.o1.tw Method TBLASTX:Wheat
Start 6376 End 6796
GI none Score 205
Exons 6376..6645, 6377..6646, 6658..6795, 6659..6796

Seq. No. 56329 Seq. ID OJ000403_13.0421.C11
Gene No. 117861 Strand -
Start 6061 End 8481
Name OJ000403_13.0421.C11.o1.ts Method TBLASTX:Soybean
Start 6490 End 6937
GI none Score 102
Exons 6490..6642, 6490..6654, 6501..6656, 6675..6821, 6680..6937, 6682..6930

Seq. No. 56329 Seq. ID OJ000403_13.0421.C11
Gene No. 117861 Strand -
Start 6061 End 8481
Name OJ000403_13.0421.C11.o2.tm Method TBLASTX:Maize
Start 7960 End 8286
GI none Score 97
Exons 7960..8145, 8125..8286

Seq. No. 56330 Seq. ID OJ000403_13.0421.C12
Gene No. 117862 Strand +
Start 63 End 3053
Name OJ000403_13.0421.C12.o1.gs Method GENSCAN
Start 63 End 3053
GI none Score .85
Exons 63..212, 1734..1752, 2373..2431, 2587..2806, 2956..3053

Seq. No. 56330 Seq. ID OJ000403_13.0421.C12
Gene No. 117862 Strand +
Start 63 End 3053
Name OJ000403_13.0421.C12.o1.gp Method AAT/GAP
Start 206 End 484
GI 427565 Score 526
Exons 206..484

Seq. No. 56331 Seq. ID OJ000403_13.0421.C13
Gene No. 117863 Strand +
Start 1 End 1434
Name OJ000403_13.0421.C13.o1.np Method AAT/NAP
Start 1 End 1434
GI 6983860 Score 642
Exons 1..134, 585..1071, 1110..1434
GI Descrip. (AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]

Seq. No. 56331 Seq. ID OJ000403_13.0421.C13
Gene No. 117863 Strand +
Start 1 End 1434

Name	OJ000403_13.0421.C13.o1.tm	Method	TBLASTX:Maize
Start	585	End	1193
GI	none	Score	45
Exons	585..626, 634..726, 747..782, 829..996, 833..1009, 1006..1077, 1112..1189, 1113..1193		

Seq. No.	56331	Seq. ID	OJ000403_13.0421.C13
Gene No.	117863	Strand	+
Start	1	End	1434
Name	OJ000403_13.0421.C13.o1.tw	Method	TBLASTX:Wheat
Start	850	End	1187
GI	none	Score	130
Exons	850..996, 851..1021, 981..1076, 1012..1083, 1107..1187, 1109..1186		

Seq. No.	56331	Seq. ID	OJ000403_13.0421.C13
Gene No.	117863	Strand	+
Start	1	End	1434
Name	OJ000403_13.0421.C13.o1.gs	Method	GENSCAN
Start	1029	End	1244
GI	none	Score	.46
Exons	1029..1244		

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117864	Strand	+
Start	67	End	363
Name	OJ000403_13.0421.C14.o1.gs	Method	GENSCAN
Start	67	End	363
GI	none	Score	.94
Exons	67..363		

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117865	Strand	-
Start	1067	End	8301
Name	OJ000403_13.0421.C14.o2.gs	Method	GENSCAN
Start	1067	End	8283
GI	none	Score	.72
Exons	1067..1122, 1310..1362, 2454..2678, 2747..2866, 3101..3276, 4937..5295, 5857..6776, 6887..8283		

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117865	Strand	-
Start	1067	End	8301
Name	OJ000403_13.0421.C14.o1.np	Method	AAT/NAP
Start	5882	End	8301
GI	1346396	Score	1960
Exons	5882..8301		
GI Descrip.	<p>PUTATIVE RECEPTOR PROTEIN KINASE ZMPK1 PRECURSOR</p> <p>gi 100913 pir S10930 probable receptor protein kinase (EC 2.7.1.-) precursor - maize gi 22432 emb CAA36611 (X52384) precursor protein (AA -26 to 791) [Zea mays]</p> <p>gi 22436 emb CAA47962 (X67733) receptor-like protein kinase [Zea mays] gi 226927 prf 1611404A receptor protein kinase [Zea mays]</p>		

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117866	Strand	-

Start	10902	End	16720
Name	OJ000403_13.0421.C14.o1.ts	Method	TBLASTX:Soybean
Start	5850	End	6733
GI	none	Score	67
Exons	5850..6035, 5897..6034, 6149..6265, 6150..6263, 6272..6640, 6297..6371, 6405..6581, 6653..6733		

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117866	Strand	-
Start	10902	End	16720
Name	OJ000403_13.0421.C14.o1.tc	Method	TBLASTX:Cress
Start	5867	End	7918
GI	none	Score	88
Exons	5867..6022, 6143..6268, 6150..6278, 6272..6475, 6294..6443, 6491..6670, 6552..6581, 6693..6767, 7369..7545, 7771..7911, 7772..7918		

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117866	Strand	-
Start	10902	End	16720
Name	OJ000403_13.0421.C14.o2.tm	Method	TBLASTX:Maize
Start	6115	End	6793
GI	none	Score	44
Exons	6115..6204, 6149..6265, 6150..6254, 6272..6640, 6279..6374, 6296..6382, 6405..6440, 6653..6733, 6737..6793		

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117866	Strand	-
Start	10902	End	16720
Name	OJ000403_13.0421.C14.o1.tw	Method	TBLASTX:Wheat
Start	6197	End	6616
GI	none	Score	247
Exons	6197..6466, 6198..6467, 6240..6467, 6485..6616, 6486..6605, 6512..6613		

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117866	Strand	-
Start	10902	End	16720
Name	OJ000403_13.0421.C14.o1.gp	Method	AAT/GAP
Start	10602	End	16720
GI	1015 2.R1084	Score	2552
Exons	10602..11075, 11679..11870, 12966..13043, 13147..13255, 15225..15339, 16287..16720		
GI Descrip.	'1218054/gb AAA91806 0.0e+00 (U49113) protein phosphatase 2A [Oryza sativa]'		

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117866	Strand	-
Start	10902	End	16720
Name	OJ000403_13.0421.C14.o3.tm	Method	TBLASTX:Maize
Start	10619	End	15265
GI	none	Score	91
Exons	10619..10729, 10619..10672, 10623..10823, 10623..10739, 10766..10795, 10882..11076, 10898..11002, 10899..11078, 10902..11078, 11677..11871, 11679..11873, 11679..11870, 12925..13041, 12928..13041, 12944..12961, 12945..13043, 12965..13045, 12966..13046, 13144..13254, 13151..13255,		

13151..13255, 13152..13256, 15224..15265

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117866	Strand	-
Start	10902	End	16720
Name	OJ000403_13.0421.C14.o3.ts	Method	TBLASTX:Soybean
Start	10882	End	15340
GI	none	Score	236
Exons	10882..11076, 10899..11078, 10902..11078, 11677..11871, 11679..11873, 11679..11870, 12925..13029, 12928..13041, 12945..13043, 12966..13046, 13144..13254, 13154..13255, 13169..13270, 15224..15340, 15224..15340		

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117866	Strand	-
Start	10902	End	16720
Name	OJ000403_13.0421.C14.o2.tc	Method	TBLASTX:Cress
Start	10885	End	16543
GI	none	Score	241
Exons	10885..11076, 10886..11077, 10901..11008, 10902..11078, 11675..11860, 11679..11870, 11683..11871, 12928..13044, 12945..13043, 13136..13252, 13144..13263, 13144..13254, 15224..15340, 15225..15359, 16252..16539, 16289..16543		

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117866	Strand	-
Start	10902	End	16720
Name	OJ000403_13.0421.C14.o3.gs	Method	GENSCAN
Start	10902	End	16539
GI	none	Score	.94
Exons	10902..11075, 11679..11870, 12966..13043, 13147..13255, 15225..15369, 16287..16539		

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117866	Strand	-
Start	10902	End	16720
Name	OJ000403_13.0421.C14.o2.np	Method	AAT/NAP
Start	10905	End	16539
GI	3859548	Score	1514
Exons	10905..11075, 11679..11870, 12966..13043, 13147..13255, 15225..15339, 16287..16539		
GI Descrip.	(AF097182) protein phosphatase 2A catalytic subunit [Oryza sativa]		

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117866	Strand	-
Start	10902	End	16720
Name	OJ000403_13.0421.C14.o2.tw	Method	TBLASTX:Wheat
Start	10963	End	13255
GI	none	Score	162
Exons	10963..11079, 10963..11076, 10965..11078, 11679..11870, 11686..11871, 12925..13038, 12928..13047, 12945..13043, 13136..13255, 13144..13245, 13149..13253		

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117866	Strand	-
Start	10902	End	16720

Name	OJ000403_13.0421.C14.o1.tm	Method	TBLASTX:Maize
Start	15266	End	16546
GI	none	Score	72
Exons	15266..15340, 15267..15341, 15267..15341, 16252..16545, 16289..16546		

Seq. No.	56332	Seq. ID	OJ000403_13.0421.C14
Gene No.	117866	Strand	-
Start	10902	End	16720
Name	OJ000403_13.0421.C14.o2.ts	Method	TBLASTX:Soybean
Start	16282	End	16546
GI	none	Score	252
Exons	16282..16542, 16289..16546		

Seq. No.	56333	Seq. ID	OJ000403_13.0421.C15
Gene No.	117867	Strand	-
Start	1	End	556
Name	OJ000403_13.0421.C15.o1.np	Method	AAT/NAP
Start	1	End	539
GI	7340868	Score	149
Exons	1..54, 357..539		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	56333	Seq. ID	OJ000403_13.0421.C15
Gene No.	117867	Strand	-
Start	1	End	556
Name	OJ000403_13.0421.C15.o1.gs	Method	GENSCAN
Start	293	End	556
GI	none	Score	.5
Exons	293..556		

Seq. No.	56334	Seq. ID	OJ000403_13.0421.C16
Gene No.	117868	Strand	-
Start	1	End	1844
Name	OJ000403_13.0421.C16.o1.np	Method	AAT/NAP
Start	1	End	1427
GI	7486244	Score	97
Exons	1..112, 960..1089, 1140..1427		
GI Descrip.	hypothetical protein F27F23.21 - Arabidopsis thaliana gi 6598498 gb AAD10166.2 (AC005917) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	56334	Seq. ID	OJ000403_13.0421.C16
Gene No.	117868	Strand	-
Start	1	End	1844
Name	OJ000403_13.0421.C16.o1.gs	Method	GENSCAN
Start	47	End	1844
GI	none	Score	.92
Exons	47..96, 750..865, 964..1088, 1183..1467, 1715..1844		

Seq. No.	56335	Seq. ID	OJ000403_13.0421.C17
Gene No.	117869	Strand	+
Start	2126	End	2422
Name	OJ000403_13.0421.C17.o1.gs	Method	GENSCAN
Start	2126	End	2422
GI	none	Score	.6
Exons	2126..2422		

Seq. No.	56335	Seq. ID	OJ000403_13.0421.C17
Gene No.	117870	Strand	-
Start	3803	End	4303
Name	OJ000403_13.0421.C17.o2.gs	Method	GENSCAN
Start	3803	End	4303
GI	none	Score	.76
Exons	3803..3971, 4044..4303		

Seq. No.	56336	Seq. ID	OJ000403_13.0421.C18
Gene No.	117871	Strand	+
Start	4611	End	6009
Name	OJ000403_13.0421.C18.o2.gs	Method	GENSCAN
Start	4611	End	6009
GI	none	Score	.44
Exons	4611..4781, 5920..6009		

Seq. No.	56336	Seq. ID	OJ000403_13.0421.C18
Gene No.	117872	Strand	-
Start	1100	End	3619
Name	OJ000403_13.0421.C18.o1.gp	Method	AAT/GAP
Start	535	End	616
GI	LIB3433-009-Q6-K1-F10	Score	83
Exons	535..616		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 9.0e-11 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	56336	Seq. ID	OJ000403_13.0421.C18
Gene No.	117872	Strand	-
Start	1100	End	3619
Name	OJ000403_13.0421.C18.o1.gs	Method	GENSCAN
Start	1100	End	3619
GI	none	Score	.47
Exons	1100..1118, 1220..1860, 1949..2993, 3471..3619		

Seq. No.	56336	Seq. ID	OJ000403_13.0421.C18
Gene No.	117872	Strand	-
Start	1100	End	3619
Name	OJ000403_13.0421.C18.o1.np	Method	AAT/NAP
Start	1213	End	2482
GI	7488706	Score	917
Exons	1213..2482		
GI Descrip.	probable transposase - soybean transposon mariner element Soymar1 gi 3386534 gb AAC28384.1 (AF078934) mariner transposase [Glycine max]		

Seq. No.	56336	Seq. ID	OJ000403_13.0421.C18
Gene No.	117873	Strand	-
Start	9335	End	13925
Name	OJ000403_13.0421.C18.o1.tw	Method	TBLASTX:Wheat
Start	1415	End	1710
GI	none	Score	94
Exons	1415..1633, 1429..1710		

Seq. No.	56336	Seq. ID	OJ000403_13.0421.C18
Gene No.	117873	Strand	-
Start	9335	End	13925

Name	OJ000403_13.0421.C18.o1.ts	Method	TBLASTX:Soybean
Start	5084	End	11024
GI	none	Score	183
Exons	5084..5146, 5204..5248, 10379..10636, 10387..10635, 10719..10859, 10953..11024		

Seq. No.	56336	Seq. ID	OJ000403_13.0421.C18
Gene No.	117873	Strand	-
Start	9335	End	13925
Name	OJ000403_13.0421.C18.o2.gp	Method	AAT/GAP
Start	9335	End	9946
GI	15327_1.R1084	Score	981
Exons	9335..9794, 9882..9946		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 9.0e-93 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	56336	Seq. ID	OJ000403_13.0421.C18
Gene No.	117873	Strand	-
Start	9335	End	13925
Name	OJ000403_13.0421.C18.o2.np	Method	AAT/NAP
Start	9633	End	13925
GI	7485878	Score	1305
Exons	9633..9806, 9882..10104, 10367..10639, 10696..11448, 11500..11900, 11955..12130, 12179..12661, 13214..13445, 13886..13925		
GI Descrip.	hypothetical protein F20M13.10 - Arabidopsis thaliana gi 4467132 emb CAB37501.1 (AL035540) putative protein [Arabidopsis thaliana]		

Seq. No.	56336	Seq. ID	OJ000403_13.0421.C18
Gene No.	117873	Strand	-
Start	9335	End	13925
Name	OJ000403_13.0421.C18.o4.gs	Method	GENSCAN
Start	9639	End	12875
GI	none	Score	.44
Exons	9639..9794, 9882..10085, 10381..10679, 10769..10879, 10898..11642, 11901..12091, 12146..12295, 12794..12875		

Seq. No.	56336	Seq. ID	OJ000403_13.0421.C18
Gene No.	117873	Strand	-
Start	9335	End	13925
Name	OJ000403_13.0421.C18.o2.tm	Method	TBLASTX:Maize
Start	9653	End	10077
GI	none	Score	66
Exons	9653..9739, 9660..9746, 9661..9744, 9733..9795, 9738..9791, 9855..9929, 9864..9941, 9865..9945, 9930..10073, 9932..10075, 9937..10077		

Seq. No.	56336	Seq. ID	OJ000403_13.0421.C18
Gene No.	117873	Strand	-
Start	9335	End	13925
Name	OJ000403_13.0421.C18.o1.tm	Method	TBLASTX:Maize
Start	10573	End	11079
GI	none	Score	70
Exons	10573..10635, 10573..10650, 10677..10931, 10677..10931, 10703..10933, 10923..11045, 10927..11046, 10940..11077, 10941..11075, 10975..11079		

Seq. No.	56336	Seq. ID	OJ000403_13.0421.C18
Gene No.	117873	Strand	-
Start	9335	End	13925
Name	OJ000403_13.0421.C18.o2.ts	Method	TBLASTX:Soybean
Start	11145	End	11546
GI	none	Score	38
Exons	11145..11243, 11146..11220, 11280..11417, 11281..11418, 11460..11546		

Seq. No.	56336	Seq. ID	OJ000403_13.0421.C18
Gene No.	117873	Strand	-
Start	9335	End	13925
Name	OJ000403_13.0421.C18.o3.tm	Method	TBLASTX:Maize
Start	11163	End	11528
GI	none	Score	91
Exons	11163..11258, 11163..11261, 11164..11262, 11268..11423, 11272..11421, 11277..11423, 11442..11528, 11443..11526		

Seq. No.	56337	Seq. ID	OJ000103_10.0426.C1
Gene No.	117874	Strand	-
Start	1	End	818
Name	OJ000103_10.0426.C1.o1.np	Method	AAT/NAP
Start	1	End	818
GI	7106512	Score	1129
Exons	1..818		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56337	Seq. ID	OJ000103_10.0426.C1
Gene No.	117874	Strand	-
Start	1	End	818
Name	OJ000103_10.0426.C1.o1.gs	Method	GENSCAN
Start	67	End	789
GI	none	Score	.92
Exons	67..789		

Seq. No.	56338	Seq. ID	OJ000103_10.0426.C2
Gene No.	117875	Strand	+
Start	82	End	159
Name	OJ000103_10.0426.C2.o1.gs	Method	GENSCAN
Start	82	End	159
GI	none	Score	.87
Exons	82..159		

Seq. No.	56338	Seq. ID	OJ000103_10.0426.C2
Gene No.	117876	Strand	-
Start	1	End	573
Name	OJ000103_10.0426.C2.o1.np	Method	AAT/NAP
Start	1	End	573
GI	5922623	Score	160
Exons	1..144, 495..573		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	56339	Seq. ID	OJ000103_10.0426.C4
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Gene No.	117877	Strand	-
Start	1	End	506
Name	OJ000103_10.0426.C4.o1.np	Method	AAT/NAP
Start	1	End	506
GI	7106512	Score	721
Exons	1..506		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56340	Seq. ID	OJ000103_10.0426.C6
Gene No.	117878	Strand	+
Start	558	End	5406
Name	OJ000103_10.0426.C6.o1.gs	Method	GENSCAN
Start	558	End	5406
GI	none	Score	.54
Exons	558..738, 2431..2606, 4081..4397, 4641..4746, 5054..5406		

Seq. No.	56340	Seq. ID	OJ000103_10.0426.C6
Gene No.	117879	Strand	+
Start	8760	End	11475
Name	OJ000103_10.0426.C6.o1.gp	Method	AAT/GAP
Start	8760	End	11475
GI	27636_1.R1084	Score	815
Exons	8760..8833, 8936..9080, 9962..10025, 10419..10487, 11262..11330, 11411..11475		
GI Descrip.	'4263827/gb AAD15470 9.0e-13 (AC006067) putative receptor protein kinase [Arabidopsis thaliana]'		

Seq. No.	56340	Seq. ID	OJ000103_10.0426.C6
Gene No.	117880	Strand	+
Start	12781	End	13366
Name	OJ000103_10.0426.C6.o2.gp	Method	AAT/GAP
Start	12781	End	13366
GI	5003347	Score	1081
Exons	12781..13366		

Seq. No.	56340	Seq. ID	OJ000103_10.0426.C6
Gene No.	117881	Strand	+
Start	13946	End	14419
Name	OJ000103_10.0426.C6.o3.gp	Method	AAT/GAP
Start	13869	End	14318
GI	157_1.R1084	Score	869
Exons	13869..14318		
GI Descrip.	'3747050 5.0e-53 (AF093540) ribosomal protein L26 [Zea mays]'		

Seq. No.	56340	Seq. ID	OJ000103_10.0426.C6
Gene No.	117881	Strand	+
Start	13946	End	14419
Name	OJ000103_10.0426.C6.o1.np	Method	AAT/NAP
Start	13946	End	14308
GI	3747050	Score	586
Exons	13946..14308		
GI Descrip.	(AF093540) ribosomal protein L26 [Zea mays]		

Seq. No.	56340	Seq. ID	OJ000103_10.0426.C6
Gene No.	117881	Strand	+
Start	13946	End	14419

Name OJ000103_10.0426.C6.o4.gs
 Start 13946
 GI none
 Exons 13946..14419

Method GENSCAN
 End 14419
 Score .81

Seq. No. 56340
 Gene No. 117882
 Start 19954
 Name OJ000103_10.0426.C6.o6.gs
 Start 19954
 GI none
 Exons 19954..20259

Seq. ID OJ000103_10.0426.C6
 Strand +
 End 20259
 Method GENSCAN
 End 20259
 Score .45

Seq. No. 56340
 Gene No. 117883
 Start 25337
 Name OJ000103_10.0426.C6.o8.gs
 Start 25337
 GI none
 Exons 25337..25454, 26128..26269

Seq. ID OJ000103_10.0426.C6
 Strand +
 End 26269
 Method GENSCAN
 End 26269
 Score .56

Seq. No. 56340
 Gene No. 117884
 Start 5575
 Name OJ000103_10.0426.C6.o2.gs
 Start 5575
 GI none
 Exons 5575..5673, 6394..6742, 7454..8574

Seq. ID OJ000103_10.0426.C6
 Strand -
 End 8574
 Method GENSCAN
 End 8574
 Score .71

Seq. No. 56340
 Gene No. 117885
 Start 11610
 Name OJ000103_10.0426.C6.o3.gs
 Start 11610
 GI none
 Exons 11610..11797, 12238..12334

Seq. ID OJ000103_10.0426.C6
 Strand -
 End 12334
 Method GENSCAN
 End 12334
 Score .94

Seq. No. 56340
 Gene No. 117886
 Start 14274
 Name OJ000103_10.0426.C6.o4.gp
 Start 14274
 GI 60170_1.R1084
 Exons 14274..14646

Seq. ID OJ000103_10.0426.C6
 Strand -
 End 14646
 Method AAT/GAP
 End 14646
 Score 624

GI Descrip. '1483177/dbj|BAA13135| 3.0e-24 (D86598) antifreeze-like protein (af70) [Picea abies]'

Seq. No. 56340
 Gene No. 117887
 Start 21907
 Name OJ000103_10.0426.C6.o2.ts
 Start 7777
 GI none
 Exons 7777..7872, 7851..7982, 7852..7968, 8005..8097, 8010..8096

Seq. ID OJ000103_10.0426.C6
 Strand -
 End 23301
 Method TBLASTX:Soybean
 End 8097
 Score 92

Seq. No. 56340
 Gene No. 117887

Seq. ID OJ000103_10.0426.C6
 Strand -

Start	21907	End	23301
Name	OJ000103_10.0426.C6.o1.tm	Method	TBLASTX:Maize
Start	8011	End	8466
GI	none	Score	567
Exons	8011..8355, 8013..8357, 8352..8444, 8359..8466		

Seq. No.	56340	Seq. ID	OJ000103_10.0426.C6
Gene No.	117887	Strand	-
Start	21907	End	23301
Name	OJ000103_10.0426.C6.o1.tw	Method	TBLASTX:Wheat
Start	8998	End	12302
GI	none	Score	135
Exons	8998..9081, 8999..9073, 9000..9074, 9031..9084, 9942..10007, 9951..10037, 9962..10033, 10419..10487, 10420..10488, 11250..11327, 11252..11323, 11262..11327, 11263..11328, 11411..11488, 11412..11489, 12196..12294, 12197..12301, 12198..12302		

Seq. No.	56340	Seq. ID	OJ000103_10.0426.C6
Gene No.	117887	Strand	-
Start	21907	End	23301
Name	OJ000103_10.0426.C6.o3.tm	Method	TBLASTX:Maize
Start	9963	End	12424
GI	none	Score	75
Exons	9963..10007, 9965..10033, 9965..10036, 10419..10478, 10420..10488, 11251..11331, 11253..11330, 11409..11489, 11413..11490, 11414..11488, 11418..11489, 12197..12331, 12198..12314, 12200..12331, 12202..12387, 12357..12404, 12359..12421, 12374..12424		

Seq. No.	56340	Seq. ID	OJ000103_10.0426.C6
Gene No.	117887	Strand	-
Start	21907	End	23301
Name	OJ000103_10.0426.C6.o2.tm	Method	TBLASTX:Maize
Start	13879	End	14419
GI	none	Score	101
Exons	13879..14019, 13881..13946, 13921..14094, 13955..14419, 14155..14262		

Seq. No.	56340	Seq. ID	OJ000103_10.0426.C6
Gene No.	117887	Strand	-
Start	21907	End	23301
Name	OJ000103_10.0426.C6.o1.tc	Method	TBLASTX:Cress
Start	13939	End	14262
GI	none	Score	132
Exons	13939..14094, 13948..14232, 13955..14248, 14158..14262		

Seq. No.	56340	Seq. ID	OJ000103_10.0426.C6
Gene No.	117887	Strand	-
Start	21907	End	23301
Name	OJ000103_10.0426.C6.o1.ts	Method	TBLASTX:Soybean
Start	13939	End	14262
GI	none	Score	458
Exons	13939..14094, 13955..14248, 14158..14262		

Seq. No.	56340	Seq. ID	OJ000103_10.0426.C6
Gene No.	117887	Strand	-

Start	21907	End	23301
Name	OJ000103_10.0426.C6.o2.np	Method	AAT/NAP
Start	21876	End	23301
GI	5852084	Score	70
Exons	21876..21959, 23267..23301		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	56340	Seq. ID	OJ000103_10.0426.C6
Gene No.	117887	Strand	-
Start	21907	End	23301
Name	OJ000103_10.0426.C6.o7.gs	Method	GENSCAN
Start	21907	End	23052
GI	none	Score	.71
Exons	21907..22057, 22898..23052		

Seq. No.	56341	Seq. ID	OJ000103_10.0426.C7
Gene No.	117888	Strand	+
Start	49	End	173
Name	OJ000103_10.0426.C7.o1.gs	Method	GENSCAN
Start	49	End	173
GI	none	Score	.91
Exons	49..173		

Seq. No.	56341	Seq. ID	OJ000103_10.0426.C7
Gene No.	117889	Strand	-
Start	1593	End	1880
Name	OJ000103_10.0426.C7.o1.tw	Method	TBLASTX:Wheat
Start	1593	End	1880
GI	none	Score	66
Exons	1593..1880, 1603..1803		

Seq. No.	56342	Seq. ID	OJ000103_10.0426.C8
Gene No.	117890	Strand	+
Start	1792	End	5648
Name	OJ000103_10.0426.C8.o1.gs	Method	GENSCAN
Start	1792	End	5648
GI	none	Score	.66
Exons	1792..1904, 5498..5648		

Seq. No.	56342	Seq. ID	OJ000103_10.0426.C8
Gene No.	117891	Strand	-
Start	6336	End	7504
Name	OJ000103_10.0426.C8.o2.gs	Method	GENSCAN
Start	6336	End	7504
GI	none	Score	.66
Exons	6336..6470, 6605..6673, 7184..7243, 7340..7504		

Seq. No.	56343	Seq. ID	OJ000103_10.0426.C9
Gene No.	117892	Strand	-
Start	1	End	6755
Name	OJ000103_10.0426.C9.o2.np	Method	AAT/NAP
Start	1	End	6755
GI	6815109	Score	157
Exons	1..53, 4896..5184, 5284..5309, 6580..6755		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	56343	Seq. ID	OJ000103_10.0426.C9
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Gene No.	117892	Strand	-
Start	1	End	6755
Name	OJ000103_10.0426.C9.o1.np	Method	AAT/NAP
Start	4897	End	5194
GI	6815109	Score	147
Exons	4897..5194		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	56343	Seq. ID	OJ000103_10.0426.C9
Gene No.	117893	Strand	-
Start	9925	End	16694
Name	OJ000103_10.0426.C9.o2.gs	Method	GENSCAN
Start	9925	End	13840
GI	none	Score	.71
Exons	9925..10215, 10660..10796, 12962..13016, 13766..13840		

Seq. No.	56343	Seq. ID	OJ000103_10.0426.C9
Gene No.	117893	Strand	-
Start	9925	End	16694
Name	OJ000103_10.0426.C9.o3.np	Method	AAT/NAP
Start	10265	End	16547
GI	7106512	Score	104
Exons	10265..10292, 16366..16413, 16487..16547		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56343	Seq. ID	OJ000103_10.0426.C9
Gene No.	117893	Strand	-
Start	9925	End	16694
Name	OJ000103_10.0426.C9.o2.gp	Method	AAT/GAP
Start	16444	End	16694
GI	3761181	Score	429
Exons	16444..16694		
GI Descrip.	4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	56343	Seq. ID	OJ000103_10.0426.C9
Gene No.	117894	Strand	-
Start	17202	End	17298
Name	OJ000103_10.0426.C9.o4.np	Method	AAT/NAP
Start	17202	End	17298
GI	7523512	Score	97
Exons	17202..17298		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117895	Strand	+
Start	5288	End	9935
Name	OJ000103_10.0426.C10.o2.np	Method	AAT/NAP
Start	5288	End	9935
GI	5042454	Score	902
Exons	5288..5418, 6022..6140, 6196..6694, 7294..7361, 9810..9935		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117896	Strand	+
Start	10881	End	11330

Name	OJ000103_10.0426.C10.o2.gs	Method	GENSCAN
Start	10881	End	11330
GI	none	Score	.66
Exons	10881..10958, 11178..11330		
Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117897	Strand	-
Start	265	End	9717
Name	OJ000103_10.0426.C10.o1.gs	Method	GENSCAN
Start	265	End	9717
GI	none	Score	.4
Exons	265..423, 654..4403, 4467..5878, 6241..6325, 6505..6577, 6674..9717		
Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117897	Strand	-
Start	265	End	9717
Name	OJ000103_10.0426.C10.o1.np	Method	AAT/NAP
Start	678	End	5963
GI	7228457	Score	8117
Exons	678..2228, 2295..3446, 3569..4403, 4467..5963		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117897	Strand	-
Start	265	End	9717
Name	OJ000103_10.0426.C10.o3.np	Method	AAT/NAP
Start	6495	End	9717
GI	6907089	Score	3853
Exons	6495..8362, 8456..9717		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o6.tw	Method	TBLASTX:Wheat
Start	687	End	1289
GI	none	Score	82
Exons	687..812, 691..813, 1005..1289, 1006..1284		
Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o4.tw	Method	TBLASTX:Wheat
Start	1290	End	1671
GI	none	Score	165
Exons	1290..1670, 1321..1569, 1615..1671		
Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o2.tm	Method	TBLASTX:Maize
Start	1485	End	1808
GI	none	Score	183
Exons	1485..1808, 1498..1746		

Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o7.tw	Method	TBLASTX:Wheat
Start	2001	End	2313
GI	none	Score	66
Exons	2001..2261, 2137..2313		

Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o2.ts	Method	TBLASTX:Soybean
Start	2061	End	2627
GI	5666795	Score	68
Exons	2061..2261, 2316..2453, 2529..2627		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o5.tw	Method	TBLASTX:Wheat
Start	2316	End	5776
GI	none	Score	92
Exons	2316..2465, 2317..2454, 2319..2456, 2512..2688, 2526..2774, 2526..2750, 5723..5776		

Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o1.ts	Method	TBLASTX:Soybean
Start	3375	End	3746
GI	none	Score	90
Exons	3375..3746, 3586..3729		

Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o2.tw	Method	TBLASTX:Wheat
Start	3400	End	3824
GI	none	Score	328
Exons	3400..3819, 3405..3824		

Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o3.tm	Method	TBLASTX:Maize
Start	3498	End	3882
GI	none	Score	221
Exons	3498..3881, 3517..3882		

Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o1.tm	Method	TBLASTX:Maize
Start	3909	End	4265
GI	none	Score	104

Exons 3909..4142, 3909..4265, 3919..4230

Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o1.tw	Method	TBLASTX:Wheat
Start	3933	End	4395
GI	none	Score	401
Exons	3933..4394, 3934..4395		

Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o3.ts	Method	TBLASTX:Soybean
Start	3990	End	4355
GI	none	Score	120
Exons	3990..4124, 4131..4355		

Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o3.tw	Method	TBLASTX:Wheat
Start	4560	End	5046
GI	none	Score	172
Exons	4560..5045, 4564..4851, 4873..5046		

Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o4.gs	Method	GENSCAN
Start	13096	End	14365
GI	none	Score	.81
Exons	13096..13527, 13570..14097, 14102..14365		

Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o4.np	Method	AAT/NAP
Start	13150	End	15898
GI	7106512	Score	2637
Exons	13150..13523, 13578..14528, 14561..14614, 15122..15898		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56344	Seq. ID	OJ000103_10.0426.C10
Gene No.	117898	Strand	-
Start	13096	End	15898
Name	OJ000103_10.0426.C10.o5.gs	Method	GENSCAN
Start	15060	End	15836
GI	none	Score	.92
Exons	15060..15836		

Seq. No.	56345	Seq. ID	OJ000103_10.0426.C11
Gene No.	117899	Strand	+
Start	2241	End	3338
Name	OJ000103_10.0426.C11.o1.gs	Method	GENSCAN
Start	2241	End	3338

GI none Score .94
Exons 2241..3338

Seq. No. 56345 Seq. ID OJ000103_10.0426.C11
Gene No. 117899 Strand +
Start 2241 End 3338
Name OJ000103_10.0426.C11.ol.np Method AAT/NAP
Start 2262 End 3323
GI 3868857 Score 677
Exons 2262..3112, 3164..3323
GI Descrip. (AB013886) RAV1 [Arabidopsis thaliana]

Seq. No. 56345 Seq. ID OJ000103_10.0426.C11
Gene No. 117900 Strand -
Start 24 End 274
Name OJ000103_10.0426.C11.ol.gp Method AAT/GAP
Start 24 End 274
GI 3761181 Score 427
Exons 24..274
GI Descrip. 4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA,
similar sequence to Pib gene

Seq. No. 56345 Seq. ID OJ000103_10.0426.C11
Gene No. 117901 Strand
Start 2442 End 3218
Name OJ000103_10.0426.C11.ol.tc Method TBLASTX:Cress
Start 2442 End 3218
GI none Score 180
Exons 2442..2606, 2444..2524, 2664..2705, 2667..2702, 2771..2869,
2772..2870, 2915..3067, 2916..3077, 2940..3077, 3192..3218

Seq. No. 56345 Seq. ID OJ000103_10.0426.C11
Gene No. 117901 Strand
Start 2442 End 3218
Name OJ000103_10.0426.C11.ol.ts Method TBLASTX:Soybean
Start 2442 End 3218
GI none Score 178
Exons 2442..2606, 2444..2527, 2663..2692, 2664..2765, 2768..2869,
2769..2873, 2916..3077, 2918..3076, 3092..3124, 3189..3218

Seq. No. 56345 Seq. ID OJ000103_10.0426.C11
Gene No. 117901 Strand
Start 2442 End 3218
Name OJ000103_10.0426.C11.ol.tm Method TBLASTX:Maize
Start 2915 End 3080
GI none Score 252
Exons 2915..3079, 2916..3080

Seq. No. 56346 Seq. ID OJ000103_10.0426.C13
Gene No. 117902 Strand -
Start 667 End 5650
Name OJ000103_10.0426.C13.ol.gs Method GENSCAN
Start 667 End 5650
GI none Score .47
Exons 667..829, 1246..1406, 2392..2543, 5079..5166, 5537..5650

Seq. No. 56346 Seq. ID OJ000103_10.0426.C13

Gene No.	117903	Strand	-
Start	8947	End	11406
Name	OJ000103_10.0426.C13.o1.tm	Method	TBLASTX:Maize
Start	8686	End	10740
GI	none	Score	47
Exons	8686..8715, 8687..8716, 8712..8744, 8726..8743, 8763..8813, 8767..8820, 8820..8894, 8820..8900, 8824..8904, 8828..8935, 8892..8933, 8893..8934, 8946..9074, 8947..9072, 8948..9076, 9126..9311, 9128..9310, 9157..9348, 9381..9494, 9392..9496, 9394..9495, 9578..9664, 9579..9656, 9580..9657, 9739..9825, 9755..9826, 9756..9839, 9757..9825, 10539..10739, 10540..10740		

Seq. No.	56346	Seq. ID	OJ000103_10.0426.C13
Gene No.	117903	Strand	-
Start	8947	End	11406
Name	OJ000103_10.0426.C13.o1.gp	Method	AAT/GAP
Start	8707	End	9199
GI	uC-osflM202069g03a1	Score	802
Exons	8707..9072, 9155..9199		
GI Descrip.	'3860272 8.0e-22 (AC005824) putative suppressor protein [Arabidopsis thaliana] >gi 4314399_gb AAD15609_ (AC006232) putative skd1 protein [Arabidopsis thaliana]'		

Seq. No.	56346	Seq. ID	OJ000103_10.0426.C13
Gene No.	117903	Strand	-
Start	8947	End	11406
Name	OJ000103_10.0426.C13.o1.tc	Method	TBLASTX:Cress
Start	8947	End	10704
GI	none	Score	162
Exons	8947..9072, 8948..9076, 9150..9311, 9152..9310, 9381..9494, 9392..9496, 9578..9664, 9579..9659, 9756..9839, 9760..9825, 10539..10703, 10540..10704		

Seq. No.	56346	Seq. ID	OJ000103_10.0426.C13
Gene No.	117903	Strand	-
Start	8947	End	11406
Name	OJ000103_10.0426.C13.o3.gs	Method	GENSCAN
Start	8947	End	10737
GI	none	Score	.79
Exons	8947..9072, 9155..9310, 9395..9493, 9581..9760, 10539..10737		

Seq. No.	56346	Seq. ID	OJ000103_10.0426.C13
Gene No.	117903	Strand	-
Start	8947	End	11406
Name	OJ000103_10.0426.C13.o1.ts	Method	TBLASTX:Soybean
Start	8947	End	10740
GI	none	Score	166
Exons	8947..9072, 8951..9073, 9128..9310, 9162..9311, 9381..9494, 9390..9518, 9392..9520, 9394..9495, 9576..9656, 9578..9664, 9756..9839, 9757..9825, 10538..10732, 10539..10739, 10540..10740		

Seq. No.	56346	Seq. ID	OJ000103_10.0426.C13
Gene No.	117903	Strand	-
Start	8947	End	11406
Name	OJ000103_10.0426.C13.o1.np	Method	AAT/NAP
Start	8950	End	11406
GI	6649217	Score	965

Exons 8950..9072, 9155..9310, 9395..9493, 9581..9655, 9756..9824,
10539..10747, 11369..11406
GI Descrip. (AF165422) suppressor of K+ transport growth defect-like protein
[Mesembryanthemum crystallinum]

Seq. No.	56347	Seq. ID	OJ000103_10.0426.C15.
Gene No.	117904	Strand	+
Start	1	End	767
Name	OJ000103_10.0426.C15.o1.np	Method	AAT/NAP
Start	1	End	767
GI	7106512	Score	939
Exons	1..767		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56347	Seq. ID	OJ000103_10.0426.C15
Gene No.	117904	Strand	+
Start	1	End	767
Name	OJ000103_10.0426.C15.o1.gs	Method	GENSCAN
Start	56	End	702
GI	none	Score	.43
Exons	56..702		

Seq. No.	56348	Seq. ID	OJ000103_10.0426.C16
Gene No.	117905	Strand	-
Start	1	End	906
Name	OJ000103_10.0426.C16.o1.np	Method	AAT/NAP
Start	1	End	906
GI	3868859	Score	661
Exons	1..906		
GI Descrip.	(AB013887) RAV2 [Arabidopsis thaliana] gi 6358760 gb AAF07342.1 AC011665_1 (AC011665) putative DNA-binding protein (RAV2-like) [Arabidopsis thaliana] gi 6524177 gb AAF15062.1 AC011914_4 (AC011914) RAV2 [Arabidopsis thaliana]		

Seq. No.	56348	Seq. ID	OJ000103_10.0426.C16
Gene No.	117905	Strand	-
Start	1	End	906
Name	OJ000103_10.0426.C16.o1.gs	Method	GENSCAN
Start	12	End	894
GI	none	Score	.91
Exons	12..894		

Seq. No.	56348	Seq. ID	OJ000103_10.0426.C16
Gene No.	117905	Strand	-
Start	1	End	906
Name	OJ000103_10.0426.C16.o1.tc	Method	TBLASTX:Cress
Start	59	End	715
GI	none	Score	187
Exons	59..277, 100..276, 292..393, 293..403, 427..525, 440..499, 556..714, 635..715		

Seq. No.	56348	Seq. ID	OJ000103_10.0426.C16
Gene No.	117905	Strand	-
Start	1	End	906
Name	OJ000103_10.0426.C16.o1.tm	Method	TBLASTX:Maize

Start	97	End	262
GI	none	Score	204
Exons	97..261, 98..262		

Seq. No.	56348	Seq. ID	OJ000103_10.0426.C16
Gene No.	117905	Strand	-
Start	1	End	906
Name	OJ000103_10.0426.C16.o1.ts	Method	TBLASTX:Soybean
Start	100	End	715
GI	none	Score	188
Exons	100..279, 101..268, 296..397, 298..396, 430..525, 440..502, 541..714, 632..715		

Seq. No.	56349	Seq. ID	OJ000103_10.0426.C23
Gene No.	117906	Strand	+
Start	86	End	179
Name	OJ000103_10.0426.C23.o1.gs	Method	GENSCAN
Start	86	End	179
GI	none	Score	.87
Exons	86..179		

Seq. No.	56350	Seq. ID	OJ000103_10.0426.C26
Gene No.	117907	Strand	-
Start	1	End	1002
Name	OJ000103_10.0426.C26.o1.np	Method	AAT/NAP
Start	1	End	1002
GI	4416302	Score	1096
Exons	1..465, 493..1002		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	56350	Seq. ID	OJ000103_10.0426.C26
Gene No.	117907	Strand	-
Start	1	End	1002
Name	OJ000103_10.0426.C26.o1.tm	Method	TBLASTX:Maize
Start	1	End	659
GI	none	Score	65
Exons	1..93, 6..92, 92..463, 93..464, 491..586, 585..659, 587..658		

Seq. No.	56350	Seq. ID	OJ000103_10.0426.C26
Gene No.	117907	Strand	-
Start	1	End	1002
Name	OJ000103_10.0426.C26.o1.ts	Method	TBLASTX:Soybean
Start	6	End	451
GI	none	Score	39
Exons	6..95, 140..451, 147..215, 261..368		

Seq. No.	56350	Seq. ID	OJ000103_10.0426.C26
Gene No.	117907	Strand	-
Start	1	End	1002
Name	OJ000103_10.0426.C26.o1.tw	Method	TBLASTX:Wheat
Start	296	End	895
GI	none	Score	96
Exons	296..463, 297..464, 491..607, 609..635, 609..635, 647..895, 666..893		

Seq. No.	56350	Seq. ID	OJ000103_10.0426.C26
Gene No.	117907	Strand	-

Start	1	End	1002
Name	OJ000103_10.0426.C26.o2.tm	Method	TBLASTX:Maize
Start	659	End	908
GI	none	Score	229
Exons	659..907, 660..908		

Seq. No.	56351	Seq. ID	OJ000113_10.0426.C3
Gene No.	117908	Strand	+
Start	1627	End	6779
Name	OJ000113_10.0426.C3.o1.gs	Method	GENSCAN
Start	1627	End	6779
GI	none	Score	.65
Exons	1627..2428, 3860..3938, 5327..5663, 5751..6102, 6206..6644, 6650..6779		

Seq. No.	56351	Seq. ID	OJ000113_10.0426.C3
Gene No.	117909	Strand	+
Start	7237	End	9124
Name	OJ000113_10.0426.C3.o2.gs	Method	GENSCAN
Start	7237	End	8064
GI	none	Score	.88
Exons	7237..7516, 7991..8064		

Seq. No.	56351	Seq. ID	OJ000113_10.0426.C3
Gene No.	117909	Strand	+
Start	7237	End	9124
Name	OJ000113_10.0426.C3.o2.np	Method	AAT/NAP
Start	7265	End	9124
GI	957249	Score	66
Exons	7265..7466, 9076..9124		
GI Descrip.	JIP60=60 kda jasmonate-induced protein [Hordeum vulgare=barley, cv. Bonus, Peptide, 560 aa]		

Seq. No.	56351	Seq. ID	OJ000113_10.0426.C3
Gene No.	117910	Strand	-
Start	4763	End	9137
Name	OJ000113_10.0426.C3.o1.np	Method	AAT/NAP
Start	4763	End	6746
GI	7019643	Score	270
Exons	4763..4788, 6254..6746		
GI Descrip.	(AL157735) nuclear receptor binding factor-like protein [Arabidopsis thaliana]		

Seq. No.	56351	Seq. ID	OJ000113_10.0426.C3
Gene No.	117910	Strand	-
Start	4763	End	9137
Name	OJ000113_10.0426.C3.o3.np	Method	AAT/NAP
Start	5908	End	9137
GI	6539588	Score	241
Exons	5908..5953, 8134..8407, 9111..9137		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	56351	Seq. ID	OJ000113_10.0426.C3
Gene No.	117910	Strand	-
Start	4763	End	9137
Name	OJ000113_10.0426.C3.o1.tc	Method	TBLASTX:Cress
Start	6370	End	6619

GI none Score 92
Exons 6370..6438, 6424..6618, 6470..6619

Seq. No. 56351 Seq. ID OJ000113_10.0426.C3
Gene No. 117910 Strand -
Start 4763 End 9137
Name OJ000113_10.0426.C3.o1.gp Method AAT/GAP
Start 8610 End 9054
GI 4968598 Score 682
Exons 8610..9054

Seq. No. 56352 Seq. ID OJ000113_10.0426.C4
Gene No. 117911 Strand +
Start 7451 End 23404
Name OJ000113_10.0426.C4.o2.gs Method GENSCAN
Start 7451 End 23404
GI none Score .4
Exons 7451..7991, 8185..8266, 8553..8694, 8964..9053, 10143..10305,
11288..11394, 11802..12051, 13315..13364, 14565..14606,
15082..18001, 18085..18689, 18801..18905, 19030..19838,
19948..20121, 20218..20328, 20413..20485, 20580..20678,
20758..20939, 21744..22005, 23144..23404

Seq. No. 56352 Seq. ID OJ000113_10.0426.C4
Gene No. 117911 Strand +
Start 7451 End 23404
Name OJ000113_10.0426.C4.o3.np Method AAT/NAP
Start 7460 End 8035
GI 125065 Score 321
Exons 7460..8035
GI Descrip. 60 KD JASMONATE-INDUCED PROTEIN gi|419795|pir||S25092
jasmonate-induced protein - barley gi|19011|emb|CAA47017|
(X66376) jasmonate-induced protein [Hordeum vulgare]

Seq. No. 56352 Seq. ID OJ000113_10.0426.C4
Gene No. 117911 Strand +
Start 7451 End 23404
Name OJ000113_10.0426.C4.o4.np Method AAT/NAP
Start 11445 End 12622
GI 7486147 Score 447
Exons 11445..12622
GI Descrip. hypothetical protein F25I24.40 - Arabidopsis thaliana
gi|4539357|emb|CAB40051.1| (AL049525) putative protein
[Arabidopsis thaliana] gi|7267781|emb|CAB81184.1| (AL161518)
putative protein [Arabidopsis thaliana]

Seq. No. 56352 Seq. ID OJ000113_10.0426.C4
Gene No. 117911 Strand +
Start 7451 End 23404
Name OJ000113_10.0426.C4.o1.gp Method AAT/GAP
Start 14633 End 15221
GI 2310235 Score 305
Exons 14633..14670, 15082..15221
GI Descrip. 5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza
sativa]

Seq. No. 56352 Seq. ID OJ000113_10.0426.C4

Gene No.	117911	Strand	+
Start	7451	End	23404
Name	OJ000113_10.0426.C4.o2.gp	Method	AAT/GAP
Start	15086	End	19175
GI	342_1.R1084	Score	4929
Exons	15086..17964, 19140..19175		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117911	Strand	+
Start	7451	End	23404
Name	OJ000113_10.0426.C4.o4.gp	Method	AAT/GAP
Start	15086	End	19174
GI	342_1.R1084	Score	4931
Exons	15086..17964, 19140..19174		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117911	Strand	+
Start	7451	End	23404
Name	OJ000113_10.0426.C4.o3.gp	Method	AAT/GAP
Start	15086	End	19177
GI	342_1.R1084	Score	4929
Exons	15086..17964, 19140..19177		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117911	Strand	+
Start	7451	End	23404
Name	OJ000113_10.0426.C4.o5.np	Method	AAT/NAP
Start	15895	End	17855
GI	6742729	Score	3157
Exons	15895..17855		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117911	Strand	+
Start	7451	End	23404
Name	OJ000113_10.0426.C4.o6.np	Method	AAT/NAP
Start	16315	End	20925
GI	4680204	Score	696
Exons	16315..16354, 17956..18689, 18764..19838, 19948..20121, 20218..20437, 20788..20925		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117912	Strand	-
Start	127	End	6700
Name	OJ000113_10.0426.C4.o1.gs	Method	GENSCAN
Start	127	End	6397
GI	none	Score	.44
Exons	127..287, 827..972, 1137..3292, 3318..3842, 3851..5281, 5423..5796, 6096..6186, 6192..6275, 6281..6397		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117912	Strand	-
Start	127	End	6700
Name	OJ000113_10.0426.C4.o2.ts	Method	TBLASTX:Soybean
Start	594	End	1261
GI	none	Score	197
Exons	594..854, 873..1007, 1010..1261		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117912	Strand	-
Start	127	End	6700
Name	OJ000113_10.0426.C4.o1.np	Method	AAT/NAP
Start	606	End	3845
GI	7489803	Score	2353
Exons	606..2256, 2287..3845		
GI Descrip.	pol protein homolog - maize retrotransposon Opie-2 gi 3645899 gb AAC49502.1 (U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117912	Strand	-
Start	127	End	6700
Name	OJ000113_10.0426.C4.o1.tm	Method	TBLASTX:Maize
Start	624	End	1279
GI	none	Score	236
Exons	624..1007, 634..1008, 1002..1271, 1010..1279		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117912	Strand	-
Start	127	End	6700
Name	OJ000113_10.0426.C4.o5.tc	Method	TBLASTX:Cress
Start	624	End	989
GI	none	Score	86
Exons	624..869, 858..989		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117912	Strand	-
Start	127	End	6700
Name	OJ000113_10.0426.C4.o12.tw	Method	TBLASTX:Wheat
Start	669	End	989
GI	none	Score	69
Exons	669..860, 675..845, 864..989		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117912	Strand	-
Start	127	End	6700
Name	OJ000113_10.0426.C4.o7.tw	Method	TBLASTX:Wheat
Start	1025	End	1456
GI	none	Score	107
Exons	1025..1282, 1307..1456		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117912	Strand	-
Start	127	End	6700
Name	OJ000113_10.0426.C4.o4.tm	Method	TBLASTX:Maize
Start	1531	End	1970
GI	none	Score	36

Exons 1531..1584, 1532..1969, 1592..1816, 1596..1970

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117912	Strand	-
Start	127	End	6700
Name	OJ000113_10.0426.C4.o1.ts	Method	TBLASTX:Soybean
Start	1632	End	2245
GI	5509260	Score	213
Exons	1632..1886, 1637..2173, 1935..2156, 2195..2245		
GI Descrip.	-		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117912	Strand	-
Start	127	End	6700
Name	OJ000113_10.0426.C4.o3.tw	Method	TBLASTX:Wheat
Start	1640	End	2117
GI	none	Score	114
Exons	1640..1819, 1645..1848, 1646..1993, 1656..1826, 1867..1899, 1935..1985, 1994..2023, 2027..2116, 2028..2117		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117912	Strand	-
Start	127	End	6700
Name	OJ000113_10.0426.C4.o4.tc	Method	TBLASTX:Cress
Start	1751	End	2011
GI	none	Score	212
Exons	1751..2011		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117912	Strand	-
Start	127	End	6700
Name	OJ000113_10.0426.C4.o3.tm	Method	TBLASTX:Maize
Start	2561	End	3196
GI	none	Score	277
Exons	2561..2719, 2708..3130, 2715..3068, 3129..3191, 3131..3196		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117912	Strand	-
Start	127	End	6700
Name	OJ000113_10.0426.C4.o5.ts	Method	TBLASTX:Soybean
Start	2561	End	3022
GI	none	Score	138
Exons	2561..2719, 2718..3002, 2726..3022, 2825..3004		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117912	Strand	-
Start	127	End	6700
Name	OJ000113_10.0426.C4.o3.tc	Method	TBLASTX:Cress
Start	2562	End	3010
GI	none	Score	65
Exons	2562..2699, 2567..2719, 2723..3010, 2840..3004		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117912	Strand	-
Start	127	End	6700
Name	OJ000113_10.0426.C4.o6.tw	Method	TBLASTX:Wheat
Start	2645	End	3238

GI none Score 67
Exons 2645..2713, 2705..2779, 2804..2965, 2813..3238

Seq. No. 56352 Seq. ID OJ000113_10.0426.C4
Gene No. 117912 Strand -
Start 127 End 6700
Name OJ000113_10.0426.C4.o2.np Method AAT/NAP
Start 4719 End 6700
GI 7523502 Score 186
Exons 4719..4765, 6154..6293, 6607..6700
GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. No. 56352 Seq. ID OJ000113_10.0426.C4
Gene No. 117913 Strand
Start 7439 End 8043
Name OJ000113_10.0426.C4.o6.tm Method TBLASTX:Maize
Start 7439 End 8043
GI none Score 109
Exons 7439..7525, 7441..7512, 7452..7532, 7586..7705, 7604..7699,
7606..7722, 7702..7887, 7736..7897, 7736..7891, 7737..7895,
7864..8040, 7865..8041, 7897..8043

Seq. No. 56352 Seq. ID OJ000113_10.0426.C4
Gene No. 117914 Strand
Start 11389 End 13101
Name OJ000113_10.0426.C4.o2.tm Method TBLASTX:Maize
Start 11389 End 12332
GI none Score 223
Exons 11389..11637, 11426..11650, 11661..12332, 11690..11893,
11853..12212

Seq. No. 56352 Seq. ID OJ000113_10.0426.C4
Gene No. 117914 Strand
Start 11389 End 13101
Name OJ000113_10.0426.C4.o8.tw Method TBLASTX:Wheat
Start 11408 End 11756
GI none Score 262
Exons 11408..11668, 11438..11632, 11460..11756, 11461..11658

Seq. No. 56352 Seq. ID OJ000113_10.0426.C4
Gene No. 117914 Strand
Start 11389 End 13101
Name OJ000113_10.0426.C4.o4.ts Method TBLASTX:Soybean
Start 11937 End 12463
GI none Score 213
Exons 11937..12257, 12278..12463

Seq. No. 56352 Seq. ID OJ000113_10.0426.C4
Gene No. 117914 Strand
Start 11389 End 13101
Name OJ000113_10.0426.C4.o11.tw Method TBLASTX:Wheat
Start 12087 End 12637
GI none Score 148
Exons 12087..12398, 12251..12460, 12455..12493, 12521..12637

Seq. No. 56352 Seq. ID OJ000113_10.0426.C4
Gene No. 117914 Strand

Start	11389	End	13101
Name	OJ000113_10.0426.C4.o7.tm	Method	TBLASTX:Maize
Start	12506	End	13006
GI	none	Score	323
Exons	12506..12703, 12536..12907, 12610..12753, 12767..12907, 12925..13002, 12974..13006		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117914	Strand	
Start	11389	End	13101
Name	OJ000113_10.0426.C4.o10.tw	Method	TBLASTX:Wheat
Start	12731	End	13101
GI	none	Score	138
Exons	12731..12922, 12812..13099, 12819..13064, 12868..13101, 12974..13099		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117915	Strand	
Start	13195	End	13470
Name	OJ000113_10.0426.C4.o9.tm	Method	TBLASTX:Maize
Start	13195	End	13470
GI	none	Score	179
Exons	13195..13359, 13212..13349, 13221..13364, 13369..13470		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117916	Strand	
Start	15433	End	15789
Name	OJ000113_10.0426.C4.o5.tw	Method	TBLASTX:Wheat
Start	15433	End	15789
GI	none	Score	103
Exons	15433..15540, 15523..15774, 15531..15773, 15532..15789, 15533..15784		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117917	Strand	
Start	15705	End	16578
Name	OJ000113_10.0426.C4.o3.ts	Method	TBLASTX:Soybean
Start	15705	End	16134
GI	none	Score	102
Exons	15705..15788, 15706..15780, 15781..15843, 15838..16134, 15892..16116		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117917	Strand	
Start	15705	End	16578
Name	OJ000113_10.0426.C4.o2.tc	Method	TBLASTX:Cress
Start	15867	End	16215
GI	none	Score	308
Exons	15867..16019, 15874..16215, 16059..16196		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117917	Strand	
Start	15705	End	16578
Name	OJ000113_10.0426.C4.o2.tw	Method	TBLASTX:Wheat
Start	16003	End	16472
GI	none	Score	73
Exons	16003..16056, 16011..16055, 16057..16161, 16068..16157,		

16165..16263, 16170..16262, 16243..16467, 16263..16472,
16266..16472

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117917	Strand	
Start	15705	End	16578
Name	OJ000113_10.0426.C4.o5.tm	Method	TBLASTX:Maize
Start	16048	End	16506
GI	none	Score	247
Exons	16048..16302, 16060..16302, 16312..16506		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117917	Strand	
Start	15705	End	16578
Name	OJ000113_10.0426.C4.o6.ts	Method	TBLASTX:Soybean
Start	16336	End	16578
GI	none	Score	205
Exons	16336..16578		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117918	Strand	
Start	16611	End	17021
Name	OJ000113_10.0426.C4.o4.tw	Method	TBLASTX:Wheat
Start	16611	End	17021
GI	none	Score	87
Exons	16611..16661, 16612..16674, 16680..16862, 16684..16902, 16935..17021, 16936..17019		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117919	Strand	
Start	17022	End	17940
Name	OJ000113_10.0426.C4.o1.tw	Method	TBLASTX:Wheat
Start	17022	End	17940
GI	none	Score	341
Exons	17022..17747, 17022..17924, 17023..17940, 17608..17925		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117919	Strand	
Start	17022	End	17940
Name	OJ000113_10.0426.C4.o8.tm	Method	TBLASTX:Maize
Start	17065	End	17379
GI	none	Score	312
Exons	17065..17379, 17076..17351, 17149..17379		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117919	Strand	
Start	17022	End	17940
Name	OJ000113_10.0426.C4.o1.tc	Method	TBLASTX:Cress
Start	17306	End	17757
GI	none	Score	172
Exons	17306..17488, 17310..17747, 17310..17753, 17314..17757, 17608..17757		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117920	Strand	
Start	18002	End	18341
Name	OJ000113_10.0426.C4.o9.tw	Method	TBLASTX:Wheat

Start	18002	End	18341
GI	none	Score	154
Exons	18002..18151, 18003..18164, 18168..18305, 18228..18302, 18309..18341		

Seq. No.	56352	Seq. ID	OJ000113_10.0426.C4
Gene No.	117921	Strand	
Start	19765	End	20287
Name	OJ000113_10.0426.C4.o13.tw	Method	TBLASTX:Wheat
Start	19765	End	20287
GI	none	Score	60
Exons	19765..19845, 19934..20116, 19984..20109, 20216..20287		

Seq. No.	56353	Seq. ID	OJ000113_10.0426.C5
Gene No.	117922	Strand	+
Start	8	End	149
Name	OJ000113_10.0426.C5.o1.gp	Method	AAT/GAP
Start	8	End	149
GI	21474_1.R1084	Score	236
Exons	8..149		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	56353	Seq. ID	OJ000113_10.0426.C5
Gene No.	117923	Strand	+
Start	2149	End	2340
Name	OJ000113_10.0426.C5.o1.np	Method	AAT/NAP
Start	2149	End	2340
GI	7339707	Score	33
Exons	2149..2340		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	56353	Seq. ID	OJ000113_10.0426.C5
Gene No.	117924	Strand	-
Start	3671	End	3833
Name	OJ000113_10.0426.C5.o2.np	Method	AAT/NAP
Start	3671	End	3833
GI	7440528	Score	148
Exons	3671..3833		
GI Descrip.	probable ribosomal protein S19 - rice mitochondrion gi 1877026 dbj BAA11351.1 (D78336) ribosomal protein S19 [Oryza sativa]		

Seq. No.	56354	Seq. ID	OJ000113_10.0426.C6
Gene No.	117925	Strand	+
Start	1	End	4582
Name	OJ000113_10.0426.C6.o1.gp	Method	AAT/GAP
Start	1	End	1524
GI	342_1.R1084	Score	2236
Exons	1..836, 872..891, 974..1071, 1181..1524		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	56354	Seq. ID	OJ000113_10.0426.C6
Gene No.	117925	Strand	+
Start	1	End	4582
Name	OJ000113_10.0426.C6.o1.np	Method	AAT/NAP

Start	1	End	743
GI	4680203	Score	693
Exons	1..743		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	56354	Seq. ID	OJ000113_10.0426.C6
Gene No.	117925	Strand	+
Start	1	End	4582
Name	OJ000113_10.0426.C6.o3.gp	Method	AAT/GAP
Start	1	End	1687
GI	342_1.R1084	Score	2519
Exons	1..836, 872..891, 974..1071, 1181..1687		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	56354	Seq. ID	OJ000113_10.0426.C6
Gene No.	117925	Strand	+
Start	1	End	4582
Name	OJ000113_10.0426.C6.o2.gp	Method	AAT/GAP
Start	1	End	1518
GI	342_1.R1084	Score	2224
Exons	1..836, 872..891, 974..1071, 1181..1518		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	56354	Seq. ID	OJ000113_10.0426.C6
Gene No.	117925	Strand	+
Start	1	End	4582
Name	OJ000113_10.0426.C6.o1.tw	Method	TBLASTX:Wheat
Start	12	End	689
GI	none	Score	231
Exons	12..290, 14..274, 15..275, 285..329, 289..324, 332..427, 336..395, 374..514, 375..515, 528..608, 597..689		

Seq. No.	56354	Seq. ID	OJ000113_10.0426.C6
Gene No.	117925	Strand	+
Start	1	End	4582
Name	OJ000113_10.0426.C6.o1.gs	Method	GENSCAN
Start	99	End	4572
GI	none	Score	.4
Exons	99..713, 1830..1928, 2009..2340, 3360..4572		

Seq. No.	56354	Seq. ID	OJ000113_10.0426.C6
Gene No.	117925	Strand	+
Start	1	End	4582
Name	OJ000113_10.0426.C6.o2.np	Method	AAT/NAP
Start	3364	End	4582
GI	4680204	Score	736
Exons	3364..4582		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	56354	Seq. ID	OJ000113_10.0426.C6
Gene No.	117925	Strand	+
Start	1	End	4582
Name	OJ000113_10.0426.C6.o2.tw	Method	TBLASTX:Wheat
Start	4007	End	4410
GI	none	Score	59

Exons 4007..4147, 4007..4081, 4009..4245, 4009..4158, 4110..4277,
4240..4410, 4315..4410

Seq. No.	56355	Seq. ID	OJ000113_10.0426.C7
Gene No.	117926	Strand	+
Start	17	End	196
Name	OJ000113_10.0426.C7.o1.gs	Method	GENSCAN
Start	17	End	196
GI	none	Score	.98
Exons	17..196		

Seq. No.	56355	Seq. ID	OJ000113_10.0426.C7
Gene No.	117927	Strand	+
Start	1496	End	4303
Name	OJ000113_10.0426.C7.o2.np	Method	AAT/NAP
Start	1496	End	4303
GI	7106528	Score	81
Exons	1496..1576, 4179..4303		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56355	Seq. ID	OJ000113_10.0426.C7
Gene No.	117928	Strand	-
Start	537	End	703
Name	OJ000113_10.0426.C7.o1.np	Method	AAT/NAP
Start	537	End	665
GI	7106528	Score	99
Exons	537..665		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56355	Seq. ID	OJ000113_10.0426.C7
Gene No.	117928	Strand	-
Start	537	End	703
Name	OJ000113_10.0426.C7.o1.gp	Method	AAT/GAP
Start	560	End	703
GI	21474 1.R1084	Score	241
Exons	560..703		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	56355	Seq. ID	OJ000113_10.0426.C7
Gene No.	117929	Strand	-
Start	618	End	1493
Name	OJ000113_10.0426.C7.o2.gs	Method	GENSCAN
Start	618	End	1493
GI	none	Score	.99
Exons	618..1493		

Seq. No.	56356	Seq. ID	OJ000113_10.0426.C9
Gene No.	117930	Strand	-
Start	53	End	333
Name	OJ000113_10.0426.C9.o1.np	Method	AAT/NAP
Start	53	End	333
GI	862343	Score	153
Exons	53..333		
GI Descrip.	(L10908) Gcap1 gene product [Mus musculus]		

gi|1092097|prf||2022314A granule cell marker protein [Mus musculus]
gi|1092098|prf||2022315A granule cell marker protein [Mus musculus]

Seq. No.	56356	Seq. ID	OJ000113_10.0426.C9
Gene No.	117931	Strand	-
Start	437	End	622
Name	OJ000113_10.0426.C9.o1.gp	Method	AAT/GAP
Start	86	End	186
GI	LIB3477-003-P1-K1-E9	Score	147
Exons	86..186		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	56356	Seq. ID	OJ000113_10.0426.C9
Gene No.	117931	Strand	-
Start	437	End	622
Name	OJ000113_10.0426.C9.o1.gs	Method	GENSCAN
Start	437	End	622
GI	none	Score	.95
Exons	437..622		

Seq. No.	56357	Seq. ID	OJ000113_10.0426.C10
Gene No.	117932	Strand	-
Start	1236	End	1906
Name	OJ000113_10.0426.C10.o1.np	Method	AAT/NAP
Start	1236	End	1906
GI	4680203	Score	553
Exons	1236..1327, 1515..1906		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	56357	Seq. ID	OJ000113_10.0426.C10
Gene No.	117932	Strand	-
Start	1236	End	1906
Name	OJ000113_10.0426.C10.o1.tc	Method	TBLASTX:Cress
Start	1259	End	1788
GI	none	Score	91
Exons	1259..1366, 1509..1787, 1546..1788		

Seq. No.	56357	Seq. ID	OJ000113_10.0426.C10
Gene No.	117932	Strand	-
Start	1236	End	1906
Name	OJ000113_10.0426.C10.o1.ts	Method	TBLASTX:Soybean
Start	1527	End	1877
GI	none	Score	91
Exons	1527..1823, 1540..1773, 1818..1877		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117933	Strand	+
Start	8319	End	8639
Name	OJ000113_10.0426.C11.o1.gp	Method	AAT/GAP
Start	8319	End	8639
GI	uC-osf1M202014c01b1	Score	561
Exons	8319..8639		
GI Descrip.	'395930/emb X66522 OSTOS12A 8.0e-49 O.sativa retrotransposon Tos1-2 >gi_2176333_dbj_E08212_E08212 DNA sequence containing		

retrotransposon region'

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117934	Strand	+
Start	8799	End	9140
Name	OJ000113_10.0426.C11.o3.gs	Method	GENSCAN
Start	8799	End	9140
GI	none	Score	.72
Exons	8799..9140		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117935	Strand	+
Start	12591	End	13008
Name	OJ000113_10.0426.C11.o5.gs	Method	GENSCAN
Start	12591	End	13008
GI	none	Score	.64
Exons	12591..12845, 12913..13008		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117936	Strand	+
Start	18684	End	21869
Name	OJ000113_10.0426.C11.o8.gs	Method	GENSCAN
Start	18684	End	21869
GI	none	Score	.41
Exons	18684..18768, 20688..21286, 21435..21869		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117936	Strand	+
Start	18684	End	21869
Name	OJ000113_10.0426.C11.o3.np	Method	AAT/NAP
Start	19069	End	21321
GI	5902445	Score	897
Exons	19069..19105, 20458..21321		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117937	Strand	+
Start	23267	End	25011
Name	OJ000113_10.0426.C11.o9.gs	Method	GENSCAN
Start	23267	End	25011
GI	none	Score	.54
Exons	23267..24466, 24970..25011		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117938	Strand	-
Start	76	End	1540
Name	OJ000113_10.0426.C11.o1.np	Method	AAT/NAP
Start	76	End	1540
GI	5852182	Score	217
Exons	76..413, 1517..1540		
GI Descrip.	(AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117939	Strand	-
Start	8342	End	8451
Name	OJ000113_10.0426.C11.o2.gp	Method	AAT/GAP
Start	8342	End	8451

GI	1427_1.R1084	Score	178
Exons	8342..8451		
GI Descrip.	'4504379/ref NP_003658.1 pHG38 2.0e-13 G protein-coupled receptor 49 >gi_3366802 (AF062006) orphan G protein-coupled receptor HG38 [Homo sapiens]'		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117940	Strand	-
Start	9652	End	12406
Name	OJ000113_10.0426.C11.o2.np	Method	AAT/NAP
Start	9652	End	12406
GI	1706331	Score	349
Exons	9652..9699, 12111..12406		
GI Descrip.	PYRUVATE DECARBOXYLASE ISOZYME 3 (PDC) gi 476284 (U07338) pyruvate decarboxylase [Oryza sativa]		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117940	Strand	-
Start	9652	End	12406
Name	OJ000113_10.0426.C11.o4.gs	Method	GENSCAN
Start	9775	End	12403
GI	none	Score	.91
Exons	9775..9810, 9937..10041, 11859..11977, 12094..12403		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117941	Strand	-
Start	14197	End	14659
Name	OJ000113_10.0426.C11.o6.gs	Method	GENSCAN
Start	14197	End	14659
GI	none	Score	.57
Exons	14197..14223, 14480..14659		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117942	Strand	-
Start	16059	End	24403
Name	OJ000113_10.0426.C11.o1.tc	Method	TBLASTX:Cress
Start	12113	End	12340
GI	none	Score	125
Exons	12113..12340, 12119..12340		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117942	Strand	-
Start	16059	End	24403
Name	OJ000113_10.0426.C11.o2.ts	Method	TBLASTX:Soybean
Start	12113	End	24403
GI	none	Score	193
Exons	12113..12364, 12119..12340, 12225..12353, 12455..12481, 24265..24300, 24323..24403		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117942	Strand	-
Start	16059	End	24403
Name	OJ000113_10.0426.C11.o7.gs	Method	GENSCAN
Start	16059	End	17523
GI	none	Score	.57
Exons	16059..16186, 17117..17263, 17310..17523		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117942	Strand	-
Start	16059	End	24403
Name	OJ000113_10.0426.C11.o1.tm	Method	TBLASTX:Maize
Start	20521	End	20905
GI	none	Score	332
Exons	20521..20601, 20525..20905, 20689..20904		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117942	Strand	-
Start	16059	End	24403
Name	OJ000113_10.0426.C11.o1.tw	Method	TBLASTX:Wheat
Start	20579	End	21003
GI	none	Score	471
Exons	20579..21001, 20582..20863, 20689..21003		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117942	Strand	-
Start	16059	End	24403
Name	OJ000113_10.0426.C11.o1.ts	Method	TBLASTX:Soybean
Start	20633	End	21058
GI	none	Score	320
Exons	20633..21058, 20692..20817, 20869..20901		

Seq. No.	56358	Seq. ID	OJ000113_10.0426.C11
Gene No.	117942	Strand	-
Start	16059	End	24403
Name	OJ000113_10.0426.C11.o2.tw	Method	TBLASTX:Wheat
Start	21007	End	21292
GI	none	Score	67
Exons	21007..21075, 21008..21076, 21080..21292, 21083..21202, 21088..21285		

Seq. No.	56359	Seq. ID	OJ000313_15.0421.C1
Gene No.	117943	Strand	-
Start	87	End	1301
Name	OJ000313_15.0421.C1.o1.gs	Method	GENSCAN
Start	87	End	1301
GI	none	Score	.43
Exons	87..315, 1096..1301		

Seq. No.	56360	Seq. ID	OJ000313_15.0421.C2
Gene No.	117944	Strand	-
Start	2264	End	5718
Name	OJ000313_15.0421.C2.o1.np	Method	AAT/NAP
Start	2264	End	5718
GI	4584355	Score	250
Exons	2264..2627, 5696..5718		
GI Descrip.	(AC006420) Ac-like transposase [Arabidopsis thaliana]		

Seq. No.	56361	Seq. ID	OJ000313_15.0421.C4
Gene No.	117945	Strand	-
Start	275	End	940
Name	OJ000313_15.0421.C4.o1.tc	Method	TBLASTX:Cress
Start	228	End	586
GI	none	Score	97
Exons	228..449, 284..460, 446..586, 447..584		

Seq. No.	56361	Seq. ID	OJ000313_15.0421.C4
Gene No.	117945	Strand	-
Start	275	End	940
Name	OJ000313_15.0421.C4.o1.ts	Method	TBLASTX:Soybean
Start	264	End	679
GI	none	Score	376
Exons	264..671, 284..679		

Seq. No.	56361	Seq. ID	OJ000313_15.0421.C4
Gene No.	117945	Strand	-
Start	275	End	940
Name	OJ000313_15.0421.C4.o1.gs	Method	GENSCAN
Start	275	End	706
GI	none	Score	.96
Exons	275..706		

Seq. No.	56361	Seq. ID	OJ000313_15.0421.C4
Gene No.	117945	Strand	-
Start	275	End	940
Name	OJ000313_15.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	275	End	712
GI	none	Score	123
Exons	275..712, 285..395, 290..433, 441..710		

Seq. No.	56361	Seq. ID	OJ000313_15.0421.C4
Gene No.	117945	Strand	-
Start	275	End	940
Name	OJ000313_15.0421.C4.o1.np	Method	AAT/NAP
Start	281	End	940
GI	4586038	Score	556
Exons	281..714, 921..940		
GI Descrip.	(AC007109) putative heat shock protein [Arabidopsis thaliana]		

Seq. No.	56361	Seq. ID	OJ000313_15.0421.C4
Gene No.	117945	Strand	-
Start	275	End	940
Name	OJ000313_15.0421.C4.o1.tw	Method	TBLASTX:Wheat
Start	284	End	715
GI	none	Score	399
Exons	284..709, 288..710, 494..715		

Seq. No.	56362	Seq. ID	OJ000313_15.0421.C5
Gene No.	117946	Strand	-
Start	1	End	6473
Name	OJ000313_15.0421.C5.o1.np	Method	AAT/NAP
Start	1	End	6473
GI	6498122	Score	1556
Exons	1..116, 1144..1237, 1510..1665, 2213..2272, 2366..2584, 2671..3010, 4873..5186, 6413..6473		
GI Descrip.	(D88273) nicotianamine aminotransferase A [Hordeum vulgare]		

Seq. No.	56362	Seq. ID	OJ000313_15.0421.C5
Gene No.	117946	Strand	-
Start	1	End	6473
Name	OJ000313_15.0421.C5.o1.gs	Method	GENSCAN
Start	1144	End	5204

GI	none	Score	.48
Exons	1144..1237, 1510..1665, 2213..2272, 2671..3010, 4873..5204		
Seq. No.	56362	Seq. ID	OJ000313_15.0421.C5
Gene No.	117946	Strand	-
Start	1	End	6473
Name	OJ000313_15.0421.C5.o1.gp	Method	AAT/GAP
Start	1534	End	2783
GI	59388 1.R1084	Score	969
Exons	1534..1665, 2213..2272, 2366..2584, 2671..2783		
GI Descrip.	'4512651/gb AAD21706.1 2.0e-47 (AC007048) putative tyrosine transaminase [Arabidopsis thaliana]'		

Seq. No.	56362	Seq. ID	OJ000313_15.0421.C5
Gene No.	117947	Strand	-
Start	6989	End	7636
Name	OJ000313_15.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	1	End	2997
GI	none	Score	170
Exons	1..117, 2..127, 2..118, 1139..1246, 1140..1238, 1144..1239, 1495..1665, 1502..1669, 1503..1673, 1505..1666, 1507..1677, 2213..2254, 2220..2273, 2363..2581, 2367..2585, 2367..2585, 2368..2586, 2660..2929, 2660..2749, 2668..2934, 2852..2935, 2935..2997, 2936..2995		

Seq. No.	56362	Seq. ID	OJ000313_15.0421.C5
Gene No.	117947	Strand	-
Start	6989	End	7636
Name	OJ000313_15.0421.C5.o1.ts	Method	TBLASTX:Soybean
Start	4	End	3013
GI	none	Score	96
Exons	4..117, 5..118, 1136..1237, 1136..1237, 1140..1244, 1495..1662, 1496..1588, 1503..1667, 1505..1666, 1507..1668, 2363..2581, 2391..2582, 2668..2985, 2668..3009, 2687..3013		

Seq. No.	56362	Seq. ID	OJ000313_15.0421.C5
Gene No.	117947	Strand	-
Start	6989	End	7636
Name	OJ000313_15.0421.C5.o1.tc	Method	TBLASTX:Cress
Start	2390	End	2826
GI	none	Score	194
Exons	2390..2581, 2391..2582, 2668..2826, 2678..2824		

Seq. No.	56362	Seq. ID	OJ000313_15.0421.C5
Gene No.	117947	Strand	-
Start	6989	End	7636
Name	OJ000313_15.0421.C5.o1.tw	Method	TBLASTX:Wheat
Start	2896	End	5111
GI	none	Score	118
Exons	2896..3012, 2897..3028, 4857..5111, 4891..5073		

Seq. No.	56362	Seq. ID	OJ000313_15.0421.C5
Gene No.	117947	Strand	-
Start	6989	End	7636
Name	OJ000313_15.0421.C5.o2.tm	Method	TBLASTX:Maize
Start	4857	End	5135
GI	none	Score	178

Exons 4857..5135, 4891..5073

Seq. No.	56362	Seq. ID	OJ000313_15.0421.C5
Gene No.	117947	Strand	-
Start	6989	End	7636
Name	OJ000313_15.0421.C5.o2.gs	Method	GENSCAN
Start	6989	End	7636
GI	none	Score	.88
Exons	6989..7263, 7268..7424, 7541..7636		

Seq. No.	56363	Seq. ID	OJ000313_15.0421.C6
Gene No.	117948	Strand	+
Start	2004	End	2609
Name	OJ000313_15.0421.C6.o1.gs	Method	GENSCAN
Start	2004	End	2609
GI	none	Score	.44
Exons	2004..2243, 2499..2609		

Seq. No.	56363	Seq. ID	OJ000313_15.0421.C6
Gene No.	117949	Strand	-
Start	3924	End	4158
Name	OJ000313_15.0421.C6.o2.gp	Method	AAT/GAP
Start	3924	End	4158
GI	427259	Score	.411
Exons	3924..4158		

Seq. No.	56363	Seq. ID	OJ000313_15.0421.C6
Gene No.	117950	Strand	-
Start	5359	End	5530
Name	OJ000313_15.0421.C6.o2.gs	Method	GENSCAN
Start	5359	End	5530
GI	none	Score	.78
Exons	5359..5530		

Seq. No.	56364	Seq. ID	OJ000313_15.0421.C7
Gene No.	117951	Strand	+
Start	26	End	277
Name	OJ000313_15.0421.C7.o1.np	Method	AAT/NAP
Start	26	End	277
GI	7228441	Score	.77
Exons	26..277		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	56364	Seq. ID	OJ000313_15.0421.C7
Gene No.	117952	Strand	+
Start	497	End	655
Name	OJ000313_15.0421.C7.o1.gs	Method	GENSCAN
Start	497	End	655
GI	none	Score	.87
Exons	497..655		

Seq. No.	56365	Seq. ID	OJ000313_15.0421.C8
Gene No.	117953	Strand	+
Start	244	End	475
Name	OJ000313_15.0421.C8.o1.gp	Method	AAT/GAP
Start	244	End	475
GI	none	Score	.392

Exons 244..475

Seq. No. 56365
Gene No. 117954
Start 387
Name OJ000313_15.0421.C8.o1.gs
Start 387
GI none
Exons 387..468

Seq. ID OJ000313_15.0421.C8
Strand +
End 468
Method GENSCAN
End 468
Score .94

Seq. No. 56365
Gene No. 117955
Start 1348
Name OJ000313_15.0421.C8.o2.gp
Start 1348
GI none
Exons 1348..1809

Seq. ID OJ000313_15.0421.C8
Strand +
End 1809
Method AAT/GAP
End 1809
Score 859

Seq. No. 56365
Gene No. 117956
Start 7306
Name OJ000313_15.0421.C8.o3.gs
Start 7306
GI none
Exons 7306..7388, 8498..8876

Seq. ID OJ000313_15.0421.C8
Strand +
End 8876
Method GENSCAN
End 8876
Score .73

Seq. No. 56365
Gene No. 117957
Start 9895
Name OJ000313_15.0421.C8.o4.gs
Start 9895
GI none
Exons 9895..9957, 10490..10551, 11315..11372, 11525..11683

Seq. ID OJ000313_15.0421.C8
Strand +
End 14532
Method GENSCAN
End 11683
Score .73

Seq. No. 56365
Gene No. 117957
Start 9895
Name OJ000313_15.0421.C8.o1.np
Start 10714
GI 6630685
Exons 10714..10752, 13677..14532

Seq. ID OJ000313_15.0421.C8
Strand +
End 14532
Method AAT/NAP
End 14532
Score 1245

GI Descrip. (AP000969) Similar to copia-type pol polyprotein. (AF105716)
[Oryza sativa]

Seq. No. 56365
Gene No. 117958
Start 1323
Name OJ000313_15.0421.C8.o2.gs
Start 1323
GI none
Exons 1323..1474, 1606..1758, 1959..2251, 4422..4516

Seq. ID OJ000313_15.0421.C8
Strand -
End 4516
Method GENSCAN
End 4516
Score .42

Seq. No. 56365
Gene No. 117959
Start 11217
Name OJ000313_15.0421.C8.o3.gp
Start 11217

Seq. ID OJ000313_15.0421.C8
Strand -
End 11598
Method AAT/GAP
End 11598

GI uC-osflcyp033a04b1 Score 675
 Exons 11217..11598
 GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 56365 Seq. ID OJ000313_15.0421.C8
 Gene No. 117960 Strand
 Start 13678 End 14535
 Name OJ000313_15.0421.C8.o2.tm Method TBLASTX:Maize
 Start 13678 End 13855
 GI none Score 244
 Exons 13678..13854, 13679..13855

Seq. No. 56365 Seq. ID OJ000313_15.0421.C8
 Gene No. 117960 Strand
 Start 13678 End 14535
 Name OJ000313_15.0421.C8.o1.tw Method TBLASTX:Wheat
 Start 13682 End 14092
 GI none Score 90
 Exons 13682..13840, 13868..14092

Seq. No. 56365 Seq. ID OJ000313_15.0421.C8
 Gene No. 117960 Strand
 Start 13678 End 14535
 Name OJ000313_15.0421.C8.o1.tm Method TBLASTX:Maize
 Start 13856 End 14535
 GI none Score 874
 Exons 13856..14428, 13856..14158, 13867..14391, 14240..14410, 14431..14529, 14431..14535

Seq. No. 56365 Seq. ID OJ000313_15.0421.C8
 Gene No. 117960 Strand
 Start 13678 End 14535
 Name OJ000313_15.0421.C8.o1.ts Method TBLASTX:Soybean
 Start 13877 End 14392
 GI none Score 300
 Exons 13877..14275, 14086..14265, 14285..14392

Seq. No. 56366 Seq. ID OJ000313_15.0421.C9
 Gene No. 117961 Strand +
 Start 109 End 551
 Name OJ000313_15.0421.C9.o1.gs Method GENSCAN
 Start 109 End 551
 GI none Score .42
 Exons 109..213, 373..551

Seq. No. 56366 Seq. ID OJ000313_15.0421.C9
 Gene No. 117962 Strand -
 Start 1937 End 2607
 Name OJ000313_15.0421.C9.o1.np Method AAT/NAP
 Start 1937 End 2607
 GI 6721507 Score 87
 Exons 1937..2134, 2395..2607
 GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No. 56367 Seq. ID OJ000313_15.0421.C10
 Gene No. 117963 Strand -

Start	154	End	221
Name	OJ000313_15.0421.C10.o1.gs	Method	GENSCAN
Start	154	End	221
GI	none	Score	.65
Exons	154..221		
Seq. No.	56368	Seq. ID	OJ000313_15.0421.C12
Gene No.	117964	Strand	+
Start	37	End	922
Name	OJ000313_15.0421.C12.o1.gs	Method	GENSCAN
Start	37	End	922
GI	none	Score	1
Exons	37..532, 627..922		
Seq. No.	56368	Seq. ID	OJ000313_15.0421.C12
Gene No.	117965	Strand	-
Start	1737	End	2079
Name	OJ000313_15.0421.C12.o2.gs	Method	GENSCAN
Start	1737	End	2079
GI	none	Score	.83
Exons	1737..1968, 2054..2079		
Seq. No.	56368	Seq. ID	OJ000313_15.0421.C12
Gene No.	117965	Strand	-
Start	1737	End	2079
Name	OJ000313_15.0421.C12.o1.tm	Method	TBLASTX:Maize
Start	1784	End	1971
GI	none	Score	59
Exons	1784..1852, 1787..1855, 1788..1862, 1821..1862, 1836..1970, 1857..1970, 1858..1971, 1858..1971		
Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117966	Strand	+
Start	60	End	3313
Name	OJ000313_15.0421.C13.o1.gs	Method	GENSCAN
Start	60	End	3313
GI	none	Score	.41
Exons	60..136, 645..736, 3105..3313		
Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117967	Strand	+
Start	4496	End	5380
Name	OJ000313_15.0421.C13.o2.gs	Method	GENSCAN
Start	4496	End	5380
GI	none	Score	.85
Exons	4496..4578, 4716..4853, 4954..5380		
Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117968	Strand	+
Start	6163	End	6744
Name	OJ000313_15.0421.C13.o3.gs	Method	GENSCAN
Start	6163	End	6744
GI	none	Score	.98
Exons	6163..6744		
Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117969	Strand	-

Start	7555	End	8314
Name	OJ000313_15.0421.C13.o4.gs	Method	GENSCAN
Start	7555	End	8314
GI	none	Score	.54
Exons	7555..7757, 7898..8020, 8152..8314		

Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117970	Strand	-
Start	9882	End	15561
Name	OJ000313_15.0421.C13.o2.ts	Method	TBLASTX:Soybean
Start	9861	End	10541
GI	none	Score	72
Exons	9861..10124, 9958..10119, 10152..10541, 10237..10347		

Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117970	Strand	-
Start	9882	End	15561
Name	OJ000313_15.0421.C13.o5.gs	Method	GENSCAN
Start	9882	End	15422
GI	none	Score	.48
Exons	9882..13037, 13356..13555, 14018..15422		

Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117970	Strand	-
Start	9882	End	15561
Name	OJ000313_15.0421.C13.o1.np	Method	AAT/NAP
Start	9888	End	15561
GI	3777527	Score	2407
Exons	9888..11644, 11729..13020, 13048..13169, 13341..13478, 13614..13753, 14150..14398, 14601..15561		
GI Descrip.	(AF053008) gag-pol polyprotein [Glycine max]		

Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117970	Strand	-
Start	9882	End	15561
Name	OJ000313_15.0421.C13.o1.tc	Method	TBLASTX:Cress
Start	9903	End	10562
GI	none	Score	67
Exons	9903..10115, 9997..10116, 10134..10268, 10380..10550, 10389..10562		

Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117970	Strand	-
Start	9882	End	15561
Name	OJ000313_15.0421.C13.o1.tm	Method	TBLASTX:Maize
Start	9903	End	10559
GI	none	Score	299
Exons	9903..10559, 9904..10551		

Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117970	Strand	-
Start	9882	End	15561
Name	OJ000313_15.0421.C13.o3.tw	Method	TBLASTX:Wheat
Start	10326	End	10742
GI	none	Score	82
Exons	10326..10562, 10327..10551, 10590..10742		

Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117970	Strand	-
Start	9882	End	15561
Name	OJ000313_15.0421.C13.o4.ts	Method	TBLASTX:Soybean
Start	10542	End	10770
GI	none	Score	70
Exons	10542..10766, 10603..10770		

Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117970	Strand	-
Start	9882	End	15561
Name	OJ000313_15.0421.C13.o3.tm	Method	TBLASTX:Maize
Start	10803	End	11250
GI	none	Score	107
Exons	10803..11249, 10812..11108, 10813..11250		

Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117970	Strand	-
Start	9882	End	15561
Name	OJ000313_15.0421.C13.o1.ts	Method	TBLASTX:Soybean
Start	10912	End	11481
GI	5509260	Score	405
Exons	10912..11481, 10914..11441		
GI Descrip.	-		

Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117970	Strand	-
Start	9882	End	15561
Name	OJ000313_15.0421.C13.o1.tw	Method	TBLASTX:Wheat
Start	10929	End	11396
GI	none	Score	143
Exons	10929..11273, 10930..11097, 11128..11256, 11307..11396, 11313..11390		

Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117970	Strand	-
Start	9882	End	15561
Name	OJ000313_15.0421.C13.o2.tc	Method	TBLASTX:Cress
Start	11031	End	11297
GI	none	Score	116
Exons	11031..11297, 11032..11292		

Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117970	Strand	-
Start	9882	End	15561
Name	OJ000313_15.0421.C13.o2.tm	Method	TBLASTX:Maize
Start	11754	End	12389
GI	none	Score	55
Exons	11754..11906, 11888..11974, 11901..11993, 11901..12323, 11902..12231, 12069..12236, 12306..12389, 12326..12358		

Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117970	Strand	-
Start	9882	End	15561
Name	OJ000313_15.0421.C13.o3.ts	Method	TBLASTX:Soybean
Start	11754	End	12215
GI	none	Score	41

Exons 11754..11882, 11773..11892, 11904..12215, 11911..12204

Seq. No.	56369	Seq. ID	OJ000313_15.0421.C13
Gene No.	117970	Strand	-
Start	9882	End	15561
Name	OJ000313_15.0421.C13.o2.tw	Method	TBLASTX:Wheat
Start	12057	End	12620
GI	none	Score	79
Exons	12057..12344, 12072..12236, 12384..12620, 12402..12614		

Seq. No.	56370	Seq. ID	OJ000313_15.0421.C14
Gene No.	117971	Strand	+
Start	1	End	1302
Name	OJ000313_15.0421.C14.o1.np	Method	AAT/NAP
Start	1	End	956
GI	6649097	Score	778
Exons	1..81, 154..956		
GI Descrip.	(AF146275) resistance gene analog PIC27 [Oryza sativa]		

Seq. No.	56370	Seq. ID	OJ000313_15.0421.C14
Gene No.	117971	Strand	+
Start	1	End	1302
Name	OJ000313_15.0421.C14.o1.tc	Method	TBLASTX:Cress
Start	184	End	813
GI	none	Score	61
Exons	184..240, 316..564, 661..813		

Seq. No.	56370	Seq. ID	OJ000313_15.0421.C14
Gene No.	117971	Strand	+
Start	1	End	1302
Name	OJ000313_15.0421.C14.o1.gs	Method	GENSCAN
Start	355	End	1302
GI	none	Score	.68
Exons	355..851, 1160..1302		

Seq. No.	56370	Seq. ID	OJ000313_15.0421.C14
Gene No.	117971	Strand	+
Start	1	End	1302
Name	OJ000313_15.0421.C14.o1.tm	Method	TBLASTX:Maize
Start	355	End	833
GI	none	Score	52
Exons	355..429, 426..527, 433..828, 621..833		

Seq. No.	56370	Seq. ID	OJ000313_15.0421.C14
Gene No.	117971	Strand	+
Start	1	End	1302
Name	OJ000313_15.0421.C14.o1.ts	Method	TBLASTX:Soybean
Start	457	End	783
GI	none	Score	107
Exons	457..585, 459..563, 613..783, 621..752		

Seq. No.	56371	Seq. ID	OJ000313_15.0421.C15
Gene No.	117972	Strand	+
Start	1	End	2689
Name	OJ000313_15.0421.C15.o1.np	Method	AAT/NAP
Start	1	End	2689
GI	6069646	Score	333

Exons 1..469, 2655..2689
 GI Descrip. (AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]

Seq. No.	56371	Seq. ID	OJ000313_15.0421.C15
Gene No.	117973	Strand	-
Start	3428	End	3611
Name	OJ000313_15.0421.C15.o1.tm	Method	TBLASTX:Maize
Start	1	End	369
GI	none	Score	237
Exons	1..369, 285..368		

Seq. No.	56371	Seq. ID	OJ000313_15.0421.C15
Gene No.	117973	Strand	-
Start	3428	End	3611
Name	OJ000313_15.0421.C15.o2.tw	Method	TBLASTX:Wheat
Start	94	End	416
GI	none	Score	204
Exons	94..396, 264..416		

Seq. No.	56371	Seq. ID	OJ000313_15.0421.C15
Gene No.	117973	Strand	-
Start	3428	End	3611
Name	OJ000313_15.0421.C15.o1.tw	Method	TBLASTX:Wheat
Start	1131	End	1552
GI	none	Score	98
Exons	1131..1466, 1156..1476, 1164..1472, 1464..1550, 1485..1550, 1526..1552		

Seq. No.	56371	Seq. ID	OJ000313_15.0421.C15
Gene No.	117973	Strand	-
Start	3428	End	3611
Name	OJ000313_15.0421.C15.o4.np	Method	AAT/NAP
Start	3428	End	3611
GI	6069646	Score	66
Exons	3428..3611		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	56372	Seq. ID	OJ000313_15.0421.C16
Gene No.	117974	Strand	+
Start	856	End	3242
Name	OJ000313_15.0421.C16.o1.gs	Method	GENSCAN
Start	856	End	3242
GI	none	Score	.74
Exons	856..928, 1003..1065, 1577..1654, 2212..2384, 2755..2898, 2968..3242		

Seq. No.	56372	Seq. ID	OJ000313_15.0421.C16
Gene No.	117975	Strand	-
Start	4594	End	7284

Name	OJ000313_15.0421.C16.o2.np	Method	AAT/NAP
Start	4251	End	7284
GI	7493532	Score	256
Exons	4251..4304, 5207..5280, 5412..5515, 6083..6199, 6288..6451, 6564..6825, 7127..7284		
GI Descrip.	Trp-Asp repeat protein - fission yeast (Schizosaccharomyces pombe) gi 5830509 emb CAB54817.1 (AL110506) WD repeat protein [Schizosaccharomyces pombe]		

Seq. No.	56372	Seq. ID	OJ000313_15.0421.C16
Gene No.	117975	Strand	-
Start	4594	End	7284
Name	OJ000313_15.0421.C16.o2.gs	Method	GENSCAN
Start	4594	End	7133
GI	none	Score	.8
Exons	4594..4653, 4962..5051, 5126..5280, 5580..5649, 6028..6203, 6292..6451, 6564..6821, 6981..7133		

Seq. No.	56372	Seq. ID	OJ000313_15.0421.C16
Gene No.	117975	Strand	-
Start	4594	End	7284
Name	OJ000313_15.0421.C16.o1.np	Method	AAT/NAP
Start	4597	End	5502
GI	6693030	Score	391
Exons	4597..4636, 4806..4879, 4962..5280, 5412..5502		
GI Descrip.	(AC012375) T22C5.29 [Arabidopsis thaliana]		

Seq. No.	56372	Seq. ID	OJ000313_15.0421.C16
Gene No.	117975	Strand	-
Start	4594	End	7284
Name	OJ000313_15.0421.C16.o1.ts	Method	TBLASTX:Soybean
Start	4974	End	5490
GI	none	Score	57
Exons	4974..5051, 4984..5064, 5090..5296, 5139..5282, 5405..5485, 5410..5490		

Seq. No.	56372	Seq. ID	OJ000313_15.0421.C16
Gene No.	117975	Strand	-
Start	4594	End	7284
Name	OJ000313_15.0421.C16.o1.tm	Method	TBLASTX:Maize
Start	5202	End	6235
GI	none	Score	84
Exons	5202..5291, 5204..5296, 5215..5304, 5408..5593, 5413..5604, 5414..5605, 6050..6232, 6052..6204, 6071..6235		

Seq. No.	56372	Seq. ID	OJ000313_15.0421.C16
Gene No.	117975	Strand	-
Start	4594	End	7284
Name	OJ000313_15.0421.C16.o2.ts	Method	TBLASTX:Soybean
Start	6097	End	6413
GI	none	Score	134
Exons	6097..6219, 6098..6205, 6278..6412, 6293..6409, 6294..6413		

Seq. No.	56373	Seq. ID	OJ000313_15.0421.C17
Gene No.	117976	Strand	-
Start	364	End	644
Name	OJ000313_15.0421.C17.o1.gs	Method	GENSCAN

Start 364
 GI none
 Exons 364..487, 493..644

End 644
 Score .84

Seq. No. 56374
 Gene No. 117977
 Start 228
 Name OJ000313_15.0421.C18.o1.gs
 Start 228
 GI none
 Exons 228..305, 736..813

Seq. ID OJ000313_15.0421.C18
 Strand +
 End 813
 Method GENSCAN
 End 813
 Score .41

Seq. No. 56374
 Gene No. 117978
 Start 480
 Name OJ000313_15.0421.C18.o1.np
 Start 480
 GI 6815099
 Exons 480..599
 GI Descrip. (AP001081) hypothetical protein [Oryza sativa]

Seq. ID OJ000313_15.0421.C18
 Strand -
 End 599
 Method AAT/NAP
 End 599
 Score 76

Seq. No. 56374
 Gene No. 117979
 Start 1028
 Name OJ000313_15.0421.C18.o2.gs
 Start 1028
 GI none
 Exons 1028..1186

Seq. ID OJ000313_15.0421.C18
 Strand -
 End 1186
 Method GENSCAN
 End 1186
 Score .94

Seq. No. 56375
 Gene No. 117980
 Start 2206
 Name OJ000313_15.0421.C19.o1.np
 Start 2206
 GI 6649097
 Exons 2206..3153
 GI Descrip. (AF146275) resistance gene analog PIC27 [Oryza sativa]

Seq. ID OJ000313_15.0421.C19
 Strand +
 End 3153
 Method AAT/NAP
 End 3153
 Score 982

Seq. No. 56375
 Gene No. 117981
 Start 4110
 Name OJ000313_15.0421.C19.o2.np
 Start 4110
 GI 6069646
 Exons 4110..4132, 7857..8262, 8544..9529
 GI Descrip. (AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]

Seq. ID OJ000313_15.0421.C19
 Strand +
 End 9529
 Method AAT/NAP
 End 9529
 Score 634

Seq. No. 56375
 Gene No. 117982
 Start 10089
 Name OJ000313_15.0421.C19.o1.tc
 Start 2191
 GI none

Seq. ID OJ000313_15.0421.C19
 Strand +
 End 20833
 Method TBLASTX:Cress
 End 3016
 Score 48

Exons 2191..2247, 2368..2454, 2533..2769, 2873..3016

Seq. No.	56375	Seq. ID	OJ000313_15.0421.C19
Gene No.	117982	Strand	+
Start	10089	End	20833
Name	OJ000313_15.0421.C19.o1.ts	Method	TBLASTX:Soybean
Start	2197	End	2736
GI	none	Score	63
Exons	2197..2256, 2266..2472, 2533..2649, 2665..2736		

Seq. No.	56375	Seq. ID	OJ000313_15.0421.C19
Gene No.	117982	Strand	+
Start	10089	End	20833
Name	OJ000313_15.0421.C19.o7.tm	Method	TBLASTX:Maize
Start	2563	End	3036
GI	none	Score	46
Exons	2563..2637, 2665..2751, 2799..2885, 2875..3036, 2876..3031		

Seq. No.	56375	Seq. ID	OJ000313_15.0421.C19
Gene No.	117982	Strand	+
Start	10089	End	20833
Name	OJ000313_15.0421.C19.o5.tm	Method	TBLASTX:Maize
Start	7329	End	12875
GI	none	Score	172
Exons	7329..7490, 7330..7491, 7468..7608, 7498..7599, 12615..12752, 12756..12875		

Seq. No.	56375	Seq. ID	OJ000313_15.0421.C19
Gene No.	117982	Strand	+
Start	10089	End	20833
Name	OJ000313_15.0421.C19.o1.tm	Method	TBLASTX:Maize
Start	7854	End	14666
GI	none	Score	389
Exons	7854..8492, 13996..14136, 14018..14302, 14295..14666, 14312..14665		

Seq. No.	56375	Seq. ID	OJ000313_15.0421.C19
Gene No.	117982	Strand	+
Start	10089	End	20833
Name	OJ000313_15.0421.C19.o2.ts	Method	TBLASTX:Soybean
Start	8106	End	14831
GI	none	Score	162
Exons	8106..8432, 8525..8644, 14406..14636, 14703..14831		

Seq. No.	56375	Seq. ID	OJ000313_15.0421.C19
Gene No.	117982	Strand	+
Start	10089	End	20833
Name	OJ000313_15.0421.C19.o1.tw	Method	TBLASTX:Wheat
Start	8127	End	14609
GI	none	Score	43
Exons	8127..8177, 8232..8429, 14310..14609, 14312..14587		

Seq. No.	56375	Seq. ID	OJ000313_15.0421.C19
Gene No.	117982	Strand	+
Start	10089	End	20833
Name	OJ000313_15.0421.C19.o6.tm	Method	TBLASTX:Maize
Start	8552	End	14999

GI	none	Score	98
Exons	8552..8722, 8732..8755, 14729..14908, 14730..14909, 14919..14999		

Seq. No.	56375	Seq. ID	OJ000313_15.0421.C19
Gene No.	117982	Strand	+
Start	10089	End	20833
Name	OJ000313_15.0421.C19.o2.tm	Method	TBLASTX:Maize
Start	8948	End	15437
GI	none	Score	289
Exons	8948..9499, 9058..9246, 15109..15297, 15294..15437		

Seq. No.	56375	Seq. ID	OJ000313_15.0421.C19
Gene No.	117982	Strand	+
Start	10089	End	20833
Name	OJ000313_15.0421.C19.o4.np	Method	AAT/NAP
Start	10089	End	16964
GI	6069646	Score	702
Exons	10089..10112, 13727..14446, 14735..15458, 16906..16964		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	56375	Seq. ID	OJ000313_15.0421.C19
Gene No.	117982	Strand	+
Start	10089	End	20833
Name	OJ000313_15.0421.C19.o2.tw	Method	TBLASTX:Wheat
Start	10452	End	10799
GI	none	Score	179
Exons	10452..10712, 10460..10702, 10551..10703, 10721..10798, 10725..10799		

Seq. No.	56375	Seq. ID	OJ000313_15.0421.C19
Gene No.	117982	Strand	+
Start	10089	End	20833
Name	OJ000313_15.0421.C19.o3.tm	Method	TBLASTX:Maize
Start	13074	End	13466
GI	none	Score	288
Exons	13074..13466, 13118..13366		

Seq. No.	56375	Seq. ID	OJ000313_15.0421.C19
Gene No.	117982	Strand	+
Start	10089	End	20833
Name	OJ000313_15.0421.C19.o4.tm	Method	TBLASTX:Maize
Start	13730	End	13987
GI	none	Score	253
Exons	13730..13987, 13738..13959		

Seq. No.	56375	Seq. ID	OJ000313_15.0421.C19
Gene No.	117982	Strand	+
Start	10089	End	20833
Name	OJ000313_15.0421.C19.o5.np	Method	AAT/NAP
Start	15914	End	20833
GI	4204314	Score	387
Exons	15914..16090, 17054..17215, 19894..20048, 20629..20833		
GI Descrip.	(AC003027) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56375	Seq. ID	OJ000313_15.0421.C19
Gene No.	117982	Strand	+
Start	10089	End	20833
Name	OJ000313_15.0421.C19.o2.tc	Method	TBLASTX:Cress
Start	17090	End	19962
GI	none	Score	215
Exons	17090..17215, 17098..17202, 17105..17212, 18401..18466, 18402..18470, 19891..19962, 19893..19961		

Seq. No.	56376	Seq. ID	OJ000313_15.0421.C20
Gene No.	117983	Strand	+
Start	64	End	5037
Name	OJ000313_15.0421.C20.o1.gs	Method	GENSCAN
Start	64	End	5037
GI	none	Score	.88
Exons	64..153, 224..358, 1661..1829, 2552..2624, 3131..3743, 3994..5037		

Seq. No.	56376	Seq. ID	OJ000313_15.0421.C20
Gene No.	117983	Strand	+
Start	64	End	5037
Name	OJ000313_15.0421.C20.o1.gp	Method	AAT/GAP
Start	2561	End	3013
GI	none	Score	872
Exons	2561..3013		

Seq. No.	56376	Seq. ID	OJ000313_15.0421.C20
Gene No.	117983	Strand	+
Start	64	End	5037
Name	OJ000313_15.0421.C20.o2.gp	Method	AAT/GAP
Start	4390	End	4746
GI	3766881	Score	665
Exons	4390..4746		

Seq. No.	56376	Seq. ID	OJ000313_15.0421.C20
Gene No.	117984	Strand	-
Start	4922	End	5364
Name	OJ000313_15.0421.C20.o1.ts	Method	TBLASTX:Soybean
Start	3162	End	4308
GI	none	Score	100
Exons	3162..3458, 3228..3743, 3290..3550, 3406..3744, 3430..3753, 3817..3864, 3819..3863, 3991..4167, 3993..4283, 3996..4295, 4231..4308		

Seq. No.	56376	Seq. ID	OJ000313_15.0421.C20
Gene No.	117984	Strand	-
Start	4922	End	5364
Name	OJ000313_15.0421.C20.o2.tm	Method	TBLASTX:Maize
Start	3291	End	5055
GI	none	Score	62
Exons	3291..3458, 4381..4545, 4385..4666, 4387..4647, 4771..4860, 4897..5055, 4928..5035		

Seq. No.	56376	Seq. ID	OJ000313_15.0421.C20
Gene No.	117984	Strand	-
Start	4922	End	5364

Name	OJ000313_15.0421.C20.o1.tm	Method	TBLASTX:Maize
Start	3461	End	4380
GI	none	Score	62
Exons	3461..3550, 3464..3553, 3465..3743, 3469..3753, 3596..3748, 3811..3894, 3817..3900, 3818..3898, 3819..3899, 3842..3928, 3987..4040, 3994..4044, 4000..4044, 4005..4064, 4006..4065, 4038..4067, 4064..4282, 4069..4284, 4071..4280, 4276..4380		

Seq. No.	56376	Seq. ID	OJ000313_15.0421.C20
Gene No.	117984	Strand	-
Start	4922	End	5364
Name	OJ000313_15.0421.C20.o2.ts	Method	TBLASTX:Soybean
Start	4309	End	4725
GI	none	Score	270
Exons	4309..4725, 4355..4465, 4501..4722		

Seq. No.	56376	Seq. ID	OJ000313_15.0421.C20
Gene No.	117984	Strand	-
Start	4922	End	5364
Name	OJ000313_15.0421.C20.o3.gp	Method	AAT/GAP
Start	4922	End	5364
GI	3766882	Score	621
Exons	4922..5364		

Seq. No.	56377	Seq. ID	OJ000313_15.0421.C22
Gene No.	117985	Strand	+
Start	5162	End	5867
Name	OJ000313_15.0421.C22.o4.gp	Method	AAT/GAP
Start	5110	End	5700
GI	1631512	Score	783
Exons	5110..5453, 5619..5700		

Seq. No.	56377	Seq. ID	OJ000313_15.0421.C22
Gene No.	117985	Strand	+
Start	5162	End	5867
Name	OJ000313_15.0421.C22.o2.gs	Method	GENSCAN
Start	5162	End	5867
GI	none	Score	.97
Exons	5162..5453, 5619..5746, 5817..5867		

Seq. No.	56377	Seq. ID	OJ000313_15.0421.C22
Gene No.	117986	Strand	+
Start	7300	End	7810
Name	OJ000313_15.0421.C22.o5.gp	Method	AAT/GAP
Start	7300	End	7810
GI	427308	Score	302
Exons	7300..7354, 7695..7810		

Seq. No.	56377	Seq. ID	OJ000313_15.0421.C22
Gene No.	117987	Strand	-
Start	137	End	1576
Name	OJ000313_15.0421.C22.o2.tm	Method	TBLASTX:Maize
Start	131	End	333
GI	none	Score	221
Exons	131..322, 132..326, 154..333		

Seq. No.	56377	Seq. ID	OJ000313_15.0421.C22
Gene No.	117987	Strand	-
Start	137	End	1576
Name	OJ000313_15.0421.C22.o1.gs	Method	GENSCAN
Start	137	End	1425
GI	none	Score	.97
Exons	137..577, 1068..1165, 1179..1425		

Seq. No.	56377	Seq. ID	OJ000313_15.0421.C22
Gene No.	117987	Strand	-
Start	137	End	1576
Name	OJ000313_15.0421.C22.o1.tc	Method	TBLASTX:Cress
Start	143	End	1426
GI	none	Score	103
Exons	143..241, 150..242, 384..449, 407..451, 494..586, 512..577, 1258..1425, 1259..1426		

Seq. No.	56377	Seq. ID	OJ000313_15.0421.C22
Gene No.	117987	Strand	-
Start	137	End	1576
Name	OJ000313_15.0421.C22.o1.gp	Method	AAT/GAP
Start	187	End	537
GI	4768979	Score	683
Exons	187..537		
GI Descrip.	4768980/gb+AAD29703.1 AF140490_1 1.0e-35 (AF140490) heat-shock protein [Oryza sativa]		

Seq. No.	56377	Seq. ID	OJ000313_15.0421.C22
Gene No.	117987	Strand	-
Start	137	End	1576
Name	OJ000313_15.0421.C22.o1.np	Method	AAT/NAP
Start	188	End	535
GI	4768980	Score	608
Exons	188..535		
GI Descrip.	(AF140490) heat-shock protein [Oryza sativa]		

Seq. No.	56377	Seq. ID	OJ000313_15.0421.C22
Gene No.	117987	Strand	-
Start	137	End	1576
Name	OJ000313_15.0421.C22.o2.np	Method	AAT/NAP
Start	373	End	1422
GI	6566707	Score	244
Exons	373..478, 512..577, 1261..1422		
GI Descrip.	(AB028855) mDj5 [Mus musculus]		

Seq. No.	56377	Seq. ID	OJ000313_15.0421.C22
Gene No.	117987	Strand	-
Start	137	End	1576
Name	OJ000313_15.0421.C22.o1.ts	Method	TBLASTX:Soybean
Start	428	End	1429
GI	none	Score	84
Exons	428..451, 509..580, 1258..1425, 1259..1429		

Seq. No.	56377	Seq. ID	OJ000313_15.0421.C22
Gene No.	117987	Strand	-
Start	137	End	1576
Name	OJ000313_15.0421.C22.o1.tm	Method	TBLASTX:Maize

Start 1246
GI none
Exons 1246..1425, 1260..1355

End 1425
Score 146

Seq. No. 56377
Gene No. 117987
Start 137
Name OJ000313_15.0421.C22.o3.gp
Start 1319
GI 2427441
Exons 1319..1576

Seq. ID OJ000313_15.0421.C22
Strand -
End 1576
Method AAT/GAP
End 1576
Score 493

Seq. No. 56378
Gene No. 117988
Start 383
Name OJ000323_16.0421.C2.o1.gs
Start 383
GI none
Exons 383..502, 533..616

Seq. ID OJ000323_16.0421.C2
Strand +
End 616
Method GENSCAN
End 616
Score .62

Seq. No. 56379
Gene No. 117989
Start 69
Name OJ000323_16.0421.C5.o1.gs
Start 69
GI none
Exons 69..287, 593..748

Seq. ID OJ000323_16.0421.C5
Strand +
End 748
Method GENSCAN
End 748
Score .97

Seq. No. 56379
Gene No. 117990
Start 1
Name OJ000323_16.0421.C5.o1.np
Start 1
GI 2281641
Exons 1..20, 276..496

Seq. ID OJ000323_16.0421.C5
Strand -
End 2110
Method AAT/NAP
End 496
Score 94

GI Descrip. (AF003101) AP2 domain containing protein RAP2.8 [Arabidopsis thaliana]

Seq. No. 56379
Gene No. 117990
Start 1
Name OJ000323_16.0421.C5.o2.np
Start 162
GI 5852093
Exons 162..244, 1909..2025
GI Descrip. (AL117264) zwh16.1 [Oryza sativa]

Seq. ID OJ000323_16.0421.C5
Strand -
End 2110
Method AAT/NAP
End 2025
Score 66

Seq. No. 56379
Gene No. 117990
Start 1
Name OJ000323_16.0421.C5.o2.gs
Start 1273
GI none
Exons 1273..1294, 2031..2110

Seq. ID OJ000323_16.0421.C5
Strand -
End 2110
Method GENSCAN
End 2110
Score .68

Seq. No. 56380
Gene No. 117991

Seq. ID OJ000323_16.0421.C8
Strand -

Start	498	End	1011
Name	OJ000323_16.0421.C8.ol.gs	Method	GENSCAN
Start	498	End	1011
GI	none	Score	.8
Exons	498..613, 882..1011		

Seq. No.	56381	Seq. ID	OJ000323_16.0421.C9
Gene No.	117992	Strand	-
Start	1	End	1335
Name	OJ000323_16.0421.C9.ol.np	Method	AAT/NAP
Start	1	End	1284
GI	6730656	Score	260
Exons	1..36, 1018..1284		
GI Descrip.	(AC007945) F28C11.6 [Arabidopsis thaliana]		

Seq. No.	56381	Seq. ID	OJ000323_16.0421.C9
Gene No.	117992	Strand	-
Start	1	End	1335
Name	OJ000323_16.0421.C9.ol.gp	Method	AAT/GAP
Start	626	End	1335
GI	11503 1.R1084	Score	1186
Exons	626..673, 751..1335		
GI Descrip.	'6093660/sp O73944 PCP_PYRFU 1.0e-09 PYRROLIDONE-CARBOXYLATE PEPTIDASE (5-OXOPROLYL-PEPTIDASE) (PYROGLUTAMYL-PEPTIDASE I) (PGP-I) (PYRASE) >gi_3551425_dbj_BAA32989_ (AB015291) pyrrolidone carboxyl peptidase [Pyrococcus furiosus]'		

Seq. No.	56381	Seq. ID	OJ000323_16.0421.C9
Gene No.	117992	Strand	-
Start	1	End	1335
Name	OJ000323_16.0421.C9.ol.tm	Method	TBLASTX:Maize
Start	626	End	1319
GI	none	Score	78
Exons	626..676, 627..677, 745..867, 755..856, 1015..1314, 1015..1290, 1017..1319, 1019..1318		

Seq. No.	56381	Seq. ID	OJ000323_16.0421.C9
Gene No.	117992	Strand	-
Start	1	End	1335
Name	OJ000323_16.0421.C9.ol.ts	Method	TBLASTX:Soybean
Start	626	End	1276
GI	none	Score	52
Exons	626..676, 627..671, 745..888, 755..850, 1011..1226, 1015..1269, 1040..1270, 1193..1276		

Seq. No.	56381	Seq. ID	OJ000323_16.0421.C9
Gene No.	117992	Strand	-
Start	1	End	1335
Name	OJ000323_16.0421.C9.ol.gs	Method	GENSCAN
Start	626	End	1284
GI	none	Score	.53
Exons	626..673, 751..933, 1027..1284		

Seq. No.	56381	Seq. ID	OJ000323_16.0421.C9
Gene No.	117992	Strand	-
Start	1	End	1335
Name	OJ000323_16.0421.C9.ol.tc	Method	TBLASTX:Cress

Start	751	End	1285
GI	none	Score	96
Exons	751..864, 755..850, 1006..1284, 1070..1285		

Seq. No.	56382	Seq. ID	OJ000323_16.0421.C10
Gene No.	117993	Strand	+
Start	109	End	728
Name	OJ000323_16.0421.C10.o1.gs	Method	GENSCAN
Start	109	End	728
GI	none	Score	.61
Exons	109..329, 478..547, 591..728		

Seq. No.	56382	Seq. ID	OJ000323_16.0421.C10
Gene No.	117994	Strand	+
Start	1772	End	6675
Name	OJ000323_16.0421.C10.o2.gs	Method	GENSCAN
Start	1772	End	6675
GI	none	Score	.48
Exons	1772..1937, 2595..2628, 2753..2863, 2923..3098, 6554..6675		

Seq. No.	56382	Seq. ID	OJ000323_16.0421.C10
Gene No.	117994	Strand	+
Start	1772	End	6675
Name	OJ000323_16.0421.C10.o2.gp	Method	AAT/GAP
Start	2328	End	2817
GI	4107129	Score	538
Exons	2328..2475, 2598..2817		
GI Descrip.	1330273/dbj D85055 RICSINE11 2.0e-18 Rice retroposon p-SINE1-r31 gene		

Seq. No.	56382	Seq. ID	OJ000323_16.0421.C10
Gene No.	117994	Strand	+
Start	1772	End	6675
Name	OJ000323_16.0421.C10.o3.gp	Method	AAT/GAP
Start	2424	End	2926
GI	4107129	Score	636
Exons	2424..2508, 2596..2926		
GI Descrip.	1330273/dbj D85055 RICSINE11 2.0e-18 Rice retroposon p-SINE1-r31 gene		

Seq. No.	56382	Seq. ID	OJ000323_16.0421.C10
Gene No.	117994	Strand	+
Start	1772	End	6675
Name	OJ000323_16.0421.C10.o4.gp	Method	AAT/GAP
Start	2520	End	2926
GI	4107129	Score	623
Exons	2520..2926		
GI Descrip.	1330273/dbj D85055 RICSINE11 2.0e-18 Rice retroposon p-SINE1-r31 gene		

Seq. No.	56382	Seq. ID	OJ000323_16.0421.C10
Gene No.	117995	Strand	-
Start	176	End	639
Name	OJ000323_16.0421.C10.o1.gp	Method	AAT/GAP
Start	176	End	639
GI	uC-osrocyp002e11b1	Score	860
Exons	176..639		

GI Descrip. '1330273/dbj|D85055|RICSINE11 2.0e-18 Rice retroposon
p-SINE1-r31 gene'

Seq. No.	56383	Seq. ID	OJ000323_16.0421.C11
Gene No.	117996	Strand	+
Start	231	End	1936
Name	OJ000323_16.0421.C11.ol.tm	Method	TBLASTX:Maize
Start	225	End	1936
GI	none	Score	169
Exons	225..335, 242..337, 248..337, 424..528, 424..528, 425..529, 429..554, 585..644, 586..648, 598..648, 602..655, 1317..1451, 1325..1450, 1369..1452, 1547..1654, 1551..1661, 1551..1652, 1747..1776, 1753..1893, 1769..1936, 1770..1934		

Seq. No.	56383	Seq. ID	OJ000323_16.0421.C11
Gene No.	117996	Strand	+
Start	231	End	1936
Name	OJ000323_16.0421.C11.ol.tw	Method	TBLASTX:Wheat
Start	225	End	1446
GI	none	Score	170
Exons	225..335, 234..356, 242..337, 424..519, 425..517, 429..518, 591..647, 598..648, 605..655, 606..656, 1308..1442, 1325..1396, 1397..1438, 1399..1446		

Seq. No.	56383	Seq. ID	OJ000323_16.0421.C11
Gene No.	117996	Strand	+
Start	231	End	1936
Name	OJ000323_16.0421.C11.ol.np	Method	AAT/NAP
Start	231	End	1936
GI	7263550	Score	882
Exons	231..337, 432..517, 605..649, 1320..1450, 1548..1658, 1747..1936		
GI Descrip.	(AL161667) eukaryotic translation initiation factor 6 (EIF-6)-like protein [Arabidopsis thaliana]		

Seq. No.	56383	Seq. ID	OJ000323_16.0421.C11
Gene No.	117996	Strand	+
Start	231	End	1936
Name	OJ000323_16.0421.C11.ol.gp	Method	AAT/GAP
Start	241	End	1936
GI	34251_1.R1084	Score	1182
Exons	241..337, 432..517, 605..649, 1320..1450, 1548..1658, 1747..1936		
GI Descrip.	'4704410/gb AAD28078.1 AF047046_1 1.0e-104 (AF047046) translation initiation factor eIF6 [Mus musculus]'		

Seq. No.	56383	Seq. ID	OJ000323_16.0421.C11
Gene No.	117996	Strand	+
Start	231	End	1936
Name	OJ000323_16.0421.C11.ol.gs	Method	GENSCAN
Start	241	End	1658
GI	none	Score	.78
Exons	241..337, 432..517, 605..649, 1320..1450, 1548..1658		

Seq. No.	56383	Seq. ID	OJ000323_16.0421.C11
Gene No.	117996	Strand	+
Start	231	End	1936
Name	OJ000323_16.0421.C11.ol.ts	Method	TBLASTX:Soybean
Start	243	End	1936

GI	none	Score	159
Exons	243..335, 244..336, 245..337, 245..337, 413..517, 423..515, 424..519, 429..518, 591..644, 598..648, 605..658, 606..656, 1309..1455, 1320..1448, 1325..1450, 1551..1661, 1551..1655, 1595..1660, 1770..1796, 1808..1936, 1809..1934, 1814..1936		
Seq. No.	56383	Seq. ID	OJ000323_16.0421.C11
Gene No.	117996	Strand	+
Start	231	End	1936
Name	OJ000323_16.0421.C11.o2.tc	Method	TBLASTX:Cress
Start	243	End	1396
GI	none	Score	164
Exons	243..335, 244..336, 245..337, 245..337, 423..515, 424..519, 429..518, 591..644, 598..648, 606..656, 1309..1395, 1325..1396		
Seq. No.	56383	Seq. ID	OJ000323_16.0421.C11
Gene No.	117996	Strand	+
Start	231	End	1936
Name	OJ000323_16.0421.C11.o1.tc	Method	TBLASTX:Cress
Start	1397	End	1936
GI	none	Score	80
Exons	1397..1450, 1399..1455, 1545..1634, 1547..1654, 1551..1661, 1747..1776, 1769..1936, 1770..1934, 1817..1936		
Seq. No.	56384	Seq. ID	OJ000323_16.0421.C12
Gene No.	117997	Strand	-
Start	22	End	1681
Name	OJ000323_16.0421.C12.o1.gs	Method	GENSCAN
Start	22	End	1681
GI	none	Score	.53
Exons	22..214, 1539..1681		
Seq. No.	56385	Seq. ID	OJ000323_16.0421.C13
Gene No.	117998	Strand	-
Start	67	End	369
Name	OJ000323_16.0421.C13.o1.tm	Method	TBLASTX:Maize
Start	26	End	277
GI	none	Score	44
Exons	26..94, 61..180, 140..178, 169..276, 182..277		
Seq. No.	56385	Seq. ID	OJ000323_16.0421.C13
Gene No.	117998	Strand	-
Start	67	End	369
Name	OJ000323_16.0421.C13.o1.gs	Method	GENSCAN
Start	67	End	369
GI	none	Score	.99
Exons	67..369		
Seq. No.	56385	Seq. ID	OJ000323_16.0421.C13
Gene No.	117998	Strand	-
Start	67	End	369
Name	OJ000323_16.0421.C13.o1.tw	Method	TBLASTX:Wheat
Start	67	End	276
GI	none	Score	71
Exons	67..174, 169..276, 196..276		
Seq. No.	56385	Seq. ID	OJ000323_16.0421.C13

Gene No.	117998	Strand	-
Start	67	End	369
Name	OJ000323_16.0421.C13.o1.np	Method	AAT/NAP
Start	67	End	357
GI	7489543	Score	221
Exons	67..357		
GI Descrip.	probable lipid transfer protein - rice gi 1041815 gb AAC50030.1 (U16721) lipid transfer protein [Oryza sativa]		

Seq. No.	56386	Seq. ID	OJ000323_16.0421.C14
Gene No.	117999	Strand	+
Start	1455	End	2311
Name	OJ000323_16.0421.C14.o1.np	Method	AAT/NAP
Start	1455	End	2311
GI	5922623	Score	237
Exons	1455..1539, 1919..2071, 2239..2311		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	56386	Seq. ID	OJ000323_16.0421.C14
Gene No.	118000	Strand	-
Start	999	End	1984
Name	OJ000323_16.0421.C14.o1.gs	Method	GENSCAN
Start	999	End	1984
GI	none	Score	.69
Exons	999..1121, 1488..1659, 1872..1984		

Seq. No.	56387	Seq. ID	OJ000323_16.0421.C15
Gene No.	118001	Strand	+
Start	1	End	1707
Name	OJ000323_16.0421.C15.o1.np	Method	AAT/NAP
Start	1	End	1707
GI	5803259	Score	2421
Exons	1..190, 282..510, 553..1707		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	56387	Seq. ID	OJ000323_16.0421.C15
Gene No.	118001	Strand	+
Start	1	End	1707
Name	OJ000323_16.0421.C15.o1.gs	Method	GENSCAN
Start	117	End	1549
GI	none	Score	.93
Exons	117..190, 282..1549		

Seq. No.	56388	Seq. ID	OJ000323_16.0421.C16
Gene No.	118002	Strand	-
Start	1	End	195
Name	OJ000323_16.0421.C16.o1.gp	Method	AAT/GAP
Start	1	End	195
GI	2428323	Score	370
Exons	1..195		
GI Descrip.	5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		

Seq. No.	56388	Seq. ID	OJ000323_16.0421.C16
Gene No.	118003	Strand	-

Start	355	End	3142
Name	OJ000323_16.0421.C16.o1.gs	Method	GENSCAN
Start	355	End	2870
GI	none	Score	.83
Exons	355..2870		
Seq. No.	56388	Seq. ID	OJ000323_16.0421.C16
Gene No.	118003	Strand	-
Start	355	End	3142
Name	OJ000323_16.0421.C16.o1.np	Method	AAT/NAP
Start	358	End	3142
GI	7228457	Score	4413
Exons	358..1908, 1975..3142		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	56388	Seq. ID	OJ000323_16.0421.C16
Gene No.	118003	Strand	-
Start	355	End	3142
Name	OJ000323_16.0421.C16.o2.tm	Method	TBLASTX:Maize
Start	358	End	498
GI	none	Score	117
Exons	358..498, 359..493		
Seq. No.	56388	Seq. ID	OJ000323_16.0421.C16
Gene No.	118003	Strand	-
Start	355	End	3142
Name	OJ000323_16.0421.C16.o3.tw	Method	TBLASTX:Wheat
Start	367	End	969
GI	none	Score	81
Exons	367..492, 371..493, 673..969, 686..829, 866..964, 894..965		
Seq. No.	56388	Seq. ID	OJ000323_16.0421.C16
Gene No.	118003	Strand	-
Start	355	End	3142
Name	OJ000323_16.0421.C16.o1.tw	Method	TBLASTX:Wheat
Start	970	End	1351
GI	none	Score	169
Exons	970..1350, 1001..1249, 1009..1254, 1295..1351		
Seq. No.	56388	Seq. ID	OJ000323_16.0421.C16
Gene No.	118003	Strand	-
Start	355	End	3142
Name	OJ000323_16.0421.C16.o1.tm	Method	TBLASTX:Maize
Start	1165	End	1488
GI	none	Score	204
Exons	1165..1488, 1178..1459		
Seq. No.	56388	Seq. ID	OJ000323_16.0421.C16
Gene No.	118003	Strand	-
Start	355	End	3142
Name	OJ000323_16.0421.C16.o4.tw	Method	TBLASTX:Wheat
Start	1681	End	1993
GI	none	Score	67
Exons	1681..1941, 1817..1993		

Seq. No.	56388	Seq. ID	OJ000323_16.0421.C16
Gene No.	118003	Strand	-
Start	355	End	3142
Name	OJ000323_16.0421.C16.o1.ts	Method	TBLASTX:Soybean
Start	1759	End	2307
GI	5666795	Score	68
Exons	1759..1941, 1996..2133, 2209..2307		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	56388	Seq. ID	OJ000323_16.0421.C16
Gene No.	118003	Strand	-
Start	355	End	3142
Name	OJ000323_16.0421.C16.o2.tw	Method	TBLASTX:Wheat
Start	1996	End	2430
GI	none	Score	88
Exons	1996..2145, 1997..2134, 1999..2136, 2179..2430, 2189..2365, 2200..2430		

Seq. No.	56389	Seq. ID	OJ000323_16.0421.C17
Gene No.	118004	Strand	+
Start	340	End	466
Name	OJ000323_16.0421.C17.o1.gs	Method	GENSCAN
Start	340	End	466
GI	none	Score	.98
Exons	340..466		

Seq. No.	56389	Seq. ID	OJ000323_16.0421.C17
Gene No.	118005	Strand	-
Start	877	End	919
Name	OJ000323_16.0421.C17.o2.gs	Method	GENSCAN
Start	877	End	919
GI	none	Score	.67
Exons	877..919		

Seq. No.	56390	Seq. ID	OJ000323_16.0421.C19
Gene No.	118006	Strand	+
Start	50	End	1011
Name	OJ000323_16.0421.C19.o1.gs	Method	GENSCAN
Start	50	End	1011
GI	none	Score	.74
Exons	50..118, 220..261, 832..1011		

Seq. No.	56390	Seq. ID	OJ000323_16.0421.C19
Gene No.	118006	Strand	+
Start	50	End	1011
Name	OJ000323_16.0421.C19.o1.gp	Method	AAT/GAP
Start	851	End	1011
GI	none	Score	304
Exons	851..1011		

Seq. No.	56391	Seq. ID	OJ000323_16.0421.C22
Gene No.	118007	Strand	-
Start	1	End	491
Name	OJ000323_16.0421.C22.o1.np	Method	AAT/NAP
Start	1	End	489
GI	2129832	Score	314
Exons	1..25, 211..410, 441..489		

GI Descrip. heat shock transcription factor 5 - soybean
gi|671868|emb|CAA87080| (Z46956) heat shock transcription factor
5 [Glycine max]

Seq. No.	56391	Seq. ID	OJ000323_16.0421.C22
Gene No.	118007	Strand	-
Start	1	End	491
Name	OJ000323_16.0421.C22.ol.tc	Method	TBLASTX:Cress
Start	166	End	388
GI	none	Score	102
Exons	166..387, 266..388		

Seq. No.	56391	Seq. ID	OJ000323_16.0421.C22
Gene No.	118007	Strand	-
Start	1	End	491
Name	OJ000323_16.0421.C22.ol.gs	Method	GENSCAN
Start	211	End	491
GI	none	Score	.95
Exons	211..491		

Seq. No.	56391	Seq. ID	OJ000323_16.0421.C22
Gene No.	118007	Strand	-
Start	1	End	491
Name	OJ000323_16.0421.C22.ol.tm	Method	TBLASTX:Maize
Start	211	End	388
GI	none	Score	141
Exons	211..387, 266..388		

Seq. No.	56391	Seq. ID	OJ000323_16.0421.C22
Gene No.	118007	Strand	-
Start	1	End	491
Name	OJ000323_16.0421.C22.ol.ts	Method	TBLASTX:Soybean
Start	211	End	387
GI	none	Score	171
Exons	211..387, 266..385		

Seq. No.	56391	Seq. ID	OJ000323_16.0421.C22
Gene No.	118007	Strand	-
Start	1	End	491
Name	OJ000323_16.0421.C22.ol.tw	Method	TBLASTX:Wheat
Start	211	End	388
GI	none	Score	145
Exons	211..387, 266..388		

Seq. No.	56392	Seq. ID	OJ000323_16.0421.C24
Gene No.	118008	Strand	-
Start	779	End	889
Name	OJ000323_16.0421.C24.ol.gp	Method	AAT/GAP
Start	779	End	889
GI	uC-osflcyp088b12b1	Score	156
Exons	779..889		

GI Descrip. '5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic
DNA, chromosome 8, clone:P0026F07'

Seq. No.	56393	Seq. ID	OJ000323_16.0421.C25
Gene No.	118009	Strand	+
Start	1	End	422

Name	OJ000323_16.0421.C25.o2.np	Method	AAT/NAP
Start	1	End	422
GI	4680183	Score	133
Exons	1..46, 333..422		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	56393	Seq. ID	OJ000323_16.0421.C25
Gene No.	118010	Strand	+
Start	333	End	1720
Name	OJ000323_16.0421.C25.o1.gs	Method	GENSCAN
Start	333	End	1720
GI	none	Score	.81
Exons	333..378, 1119..1720		

Seq. No.	56393	Seq. ID	OJ000323_16.0421.C25
Gene No.	118011	Strand	-
Start	193	End	300
Name	OJ000323_16.0421.C25.o1.np	Method	AAT/NAP
Start	193	End	300
GI	6721561	Score	84
Exons	193..300		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1 (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56393	Seq. ID	OJ000323_16.0421.C25
Gene No.	118012	Strand	-
Start	818	End	898
Name	OJ000323_16.0421.C25.o1.gp	Method	AAT/GAP
Start	818	End	898
GI	LIB3434-017-P1-K1-F5	Score	88
Exons	818..898		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 5.0e-20 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	56393	Seq. ID	OJ000323_16.0421.C25
Gene No.	118013	Strand	-
Start	2942	End	4402
Name	OJ000323_16.0421.C25.o1.tw	Method	TBLASTX:Wheat
Start	241	End	3610
GI	none	Score	74
Exons	241..366, 2813..3049, 2817..2978, 3153..3389, 3155..3385, 3434..3610		

Seq. No.	56393	Seq. ID	OJ000323_16.0421.C25
Gene No.	118013	Strand	-
Start	2942	End	4402
Name	OJ000323_16.0421.C25.o2.gs	Method	GENSCAN
Start	2942	End	4355
GI	none	Score	.9
Exons	2942..3719, 3829..4355		

Seq. No.	56393	Seq. ID	OJ000323_16.0421.C25
Gene No.	118013	Strand	-
Start	2942	End	4402

Name	OJ000323_16.0421.C25.o3.np	Method	AAT/NAP
Start	2945	End	4402
GI	5902444	Score	2250
Exons	2945..4402		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	56393	Seq. ID	OJ000323_16.0421.C25
Gene No.	118013	Strand	-
Start	2942	End	4402
Name	OJ000323_16.0421.C25.o2.tw	Method	TBLASTX:Wheat
Start	4083	End	4400
GI	none	Score	206
Exons	4083..4400		

Seq. No.	56393	Seq. ID	OJ000323_16.0421.C25
Gene No.	118013	Strand	-
Start	2942	End	4402
Name	OJ000323_16.0421.C25.o1.tm	Method	TBLASTX:Maize
Start	4089	End	4349
GI	none	Score	66
Exons	4089..4349, 4118..4282, 4144..4347		

Seq. No.	56394	Seq. ID	OJ000323_16.0421.C26
Gene No.	118014	Strand	+
Start	579	End	1336
Name	OJ000323_16.0421.C26.o1.gp	Method	AAT/GAP
Start	579	End	1336
GI	5816562	Score	631
Exons	579..603, 925..1336		
GI Descrip.	6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		

Seq. No.	56394	Seq. ID	OJ000323_16.0421.C26
Gene No.	118015	Strand	-
Start	1	End	878
Name	OJ000323_16.0421.C26.o1.np	Method	AAT/NAP
Start	1	End	878
GI	4680183	Score	976
Exons	1..878		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	56394	Seq. ID	OJ000323_16.0421.C26
Gene No.	118015	Strand	-
Start	1	End	878
Name	OJ000323_16.0421.C26.o1.gs	Method	GENSCAN
Start	15	End	878
GI	none	Score	.49
Exons	15..878		

Seq. No.	56395	Seq. ID	OJ000323_16.0421.C27
Gene No.	118016	Strand	+
Start	418	End	465
Name	OJ000323_16.0421.C27.o1.gs	Method	GENSCAN
Start	418	End	465
GI	none	Score	.8
Exons	418..465		

Seq. No.	56395	Seq. ID	OJ000323_16.0421.C27
Gene No.	118017	Strand	+
Start	1771	End	2023
Name	OJ000323_16.0421.C27.o1.gp	Method	AAT/GAP
Start	1742	End	2023
GI	61048_1.R1084	Score	454
Exons	1742..2023		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	56395	Seq. ID	OJ000323_16.0421.C27
Gene No.	118017	Strand	+
Start	1771	End	2023
Name	OJ000323_16.0421.C27.o2.gs	Method	GENSCAN
Start	1771	End	1977
GI	none	Score	.85
Exons	1771..1977		

Seq. No.	56396	Seq. ID	OJ000323_16.0421.C28
Gene No.	118018	Strand	+
Start	1	End	479
Name	OJ000323_16.0421.C28.o1.np	Method	AAT/NAP
Start	1	End	255
GI	4760700	Score	181
Exons	1..255		
GI Descrip.	(AB024437) peroxidase 1 [Scutellaria baicalensis]		

Seq. No.	56396	Seq. ID	OJ000323_16.0421.C28
Gene No.	118018	Strand	+
Start	1	End	479
Name	OJ000323_16.0421.C28.o1.gs	Method	GENSCAN
Start	31	End	258
GI	none	Score	.98
Exons	31..258		

Seq. No.	56396	Seq. ID	OJ000323_16.0421.C28
Gene No.	118018	Strand	+
Start	1	End	479
Name	OJ000323_16.0421.C28.o1.gp	Method	AAT/GAP
Start	130	End	479
GI	3767899	Score	640
Exons	130..479		

Seq. No.	56396	Seq. ID	OJ000323_16.0421.C28
Gene No.	118019	Strand	-
Start	591	End	2407
Name	OJ000323_16.0421.C28.o2.gs	Method	GENSCAN
Start	591	End	2407
GI	none	Score	.52
Exons	591..799, 1188..1326, 1518..1623, 1860..2407		

Seq. No.	56396	Seq. ID	OJ000323_16.0421.C28
Gene No.	118019	Strand	-
Start	591	End	2407
Name	OJ000323_16.0421.C28.o2.np	Method	AAT/NAP
Start	1257	End	2224
GI	7437880	Score	410

Exons 1257..1379, 1518..1623, 1860..2026, 2060..2224
 GI Descrip. 4-coumarate--CoA ligase homolog F13C5.180 - Arabidopsis thaliana
 (fragment) gi|2832629|emb|CAA16758.1| (AL021711) 4-coumarate-CoA
 ligase-like [Arabidopsis thaliana] gi|7268695|emb|CAB78903.1|
 (AL161549) 4-coumarate-CoA ligase-like [Arabidopsis thaliana]

Seq. No.	56396	Seq. ID	OJ000323_16.0421.C28
Gene No.	118019	Strand	-
Start	591	End	2407
Name	OJ000323_16.0421.C28.ol.ts	Method	TBLASTX:Soybean
Start	1284	End	2218
GI	none	Score	86
Exons	1284..1379, 1306..1380, 1309..1413, 1563..1622, 1564..1623, 1859..2023, 2081..2218		

Seq. No.	56396	Seq. ID	OJ000323_16.0421.C28
Gene No.	118019	Strand	-
Start	591	End	2407
Name	OJ000323_16.0421.C28.ol.tm	Method	TBLASTX:Maize
Start	1293	End	2224
GI	none	Score	121
Exons	1293..1379, 1545..1622, 1859..2023, 2081..2224		

Seq. No.	56396	Seq. ID	OJ000323_16.0421.C28
Gene No.	118019	Strand	-
Start	591	End	2407
Name	OJ000323_16.0421.C28.ol.tc	Method	TBLASTX:Cress
Start	1302	End	2218
GI	none	Score	64
Exons	1302..1379, 1563..1619, 1564..1620, 1859..2029, 1860..1994, 2081..2218, 2111..2212		

Seq. No.	56397	Seq. ID	OJ000323_16.0421.C30
Gene No.	118020	Strand	+
Start	113	End	169
Name	OJ000323_16.0421.C30.ol.gs	Method	GENSCAN
Start	113	End	169
GI	none	Score	.92
Exons	113..169		

Seq. No.	56397	Seq. ID	OJ000323_16.0421.C30
Gene No.	118021	Strand	-
Start	1	End	161
Name	OJ000323_16.0421.C30.ol.np	Method	AAT/NAP
Start	1	End	161
GI	7512170	Score	48
Exons	1..161		
GI Descrip.	KLP2 protein - African clawed frog gi 1129173 emb CAA63826.1 (X94082) KLP2 protein [Xenopus laevis] gi 1587181 prf 2206309A kinesin-like protein [Xenopus laevis]		

Seq. No.	56398	Seq. ID	OJ000323_16.0421.C32
Gene No.	118022	Strand	+
Start	711	End	1518
Name	OJ000323_16.0421.C32.ol.gs	Method	GENSCAN
Start	711	End	1518
GI	none	Score	.67

Exons 711..793, 1434..1518

Seq. No.	56399	Seq. ID	OJ000323_16.0421.C33
Gene No.	118023	Strand	+
Start	1	End	1458
Name	OJ000323_16.0421.C33.o1.np	Method	AAT/NAP
Start	1	End	511
GI	7489312	Score	107
Exons	1..79, 140..511		
GI Descrip.	drought-induced protein Det11-24 - Craterostigma plantagineum gi 2644964 emb CAA05780.1 (AJ002974) CDet11-24 [Craterostigma plantagineum]		

Seq. No.	56399	Seq. ID	OJ000323_16.0421.C33
Gene No.	118023	Strand	+
Start	1	End	1458
Name	OJ000323_16.0421.C33.o1.tm	Method	TBLASTX:Maize
Start	152	End	744
GI	none	Score	202
Exons	152..322, 227..319, 383..442, 616..744		

Seq. No.	56399	Seq. ID	OJ000323_16.0421.C33
Gene No.	118023	Strand	+
Start	1	End	1458
Name	OJ000323_16.0421.C33.o1.gs	Method	GENSCAN
Start	185	End	1458
GI	none	Score	.86
Exons	185..485, 597..673, 1381..1458		

Seq. No.	56400	Seq. ID	OJ000323_16.0421.C34
Gene No.	118024	Strand	+
Start	1	End	1018
Name	OJ000323_16.0421.C34.o1.np	Method	AAT/NAP
Start	1	End	449
GI	7076758	Score	548
Exons	1..449		
GI Descrip.	(AL138658) putative protein [Arabidopsis thaliana]		

Seq. No.	56400	Seq. ID	OJ000323_16.0421.C34
Gene No.	118024	Strand	+
Start	1	End	1018
Name	OJ000323_16.0421.C34.o1.gs	Method	GENSCAN
Start	78	End	1018
GI	none	Score	.44
Exons	78..335, 986..1018		

Seq. No.	56400	Seq. ID	OJ000323_16.0421.C34
Gene No.	118025	Strand	-
Start	350	End	2775
Name	OJ000323_16.0421.C34.o1.tc	Method	TBLASTX:Cress
Start	9	End	338
GI	none	Score	192
Exons	9..338, 75..290		

Seq. No.	56400	Seq. ID	OJ000323_16.0421.C34
Gene No.	118025	Strand	-
Start	350	End	2775

Name	OJ000323_16.0421.C34.o1.ts	Method	TBLASTX:Soybean
Start	9	End	407
GI	none	Score	100
Exons	9..407, 9..407, 9..407, 9..320, 18..407, 26..310, 123..290, 204..395, 213..395		

Seq. No.	56400	Seq. ID	OJ000323_16.0421.C34
Gene No.	118025	Strand	-
Start	350	End	2775
Name	OJ000323_16.0421.C34.o1.tm	Method	TBLASTX:Maize
Start	9	End	407
GI	none	Score	230
Exons	9..407, 9..314, 33..215, 57..314		

Seq. No.	56400	Seq. ID	OJ000323_16.0421.C34
Gene No.	118025	Strand	-
Start	350	End	2775
Name	OJ000323_16.0421.C34.o2.np	Method	AAT/NAP
Start	350	End	2682
GI	1922242	Score	147
Exons	350..372, 1927..2154, 2598..2682		
GI Descrip.	(Y10084) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56400	Seq. ID	OJ000323_16.0421.C34
Gene No.	118025	Strand	-
Start	350	End	2775
Name	OJ000323_16.0421.C34.o1.gp	Method	AAT/GAP
Start	1752	End	2679
GI	none	Score	895
Exons	1752..2154, 2598..2679		

Seq. No.	56400	Seq. ID	OJ000323_16.0421.C34
Gene No.	118025	Strand	-
Start	350	End	2775
Name	OJ000323_16.0421.C34.o2.gs	Method	GENSCAN
Start	1925	End	2775
GI	none	Score	.94
Exons	1925..2154, 2598..2775		

Seq. No.	56401	Seq. ID	OJ000323_16.0421.C36
Gene No.	118026	Strand	-
Start	1	End	906
Name	OJ000323_16.0421.C36.o1.np	Method	AAT/NAP
Start	1	End	906
GI	5803259	Score	1570
Exons	1..906		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	56401	Seq. ID	OJ000323_16.0421.C36
Gene No.	118026	Strand	-
Start	1	End	906
Name	OJ000323_16.0421.C36.o1.gs	Method	GENSCAN
Start	154	End	906
GI	none	Score	.83
Exons	154..906		

Seq. No.	56401	Seq. ID	OJ000323_16.0421.C36
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Gene No.	118027	Strand	-
Start	1287	End	1402
Name	OJ000323_16.0421.C36.o2.gs	Method	GENSCAN
Start	1287	End	1402
GI	none	Score	.54
Exons	1287..1402		
Seq. No.	56402	Seq. ID	OJ000323_16.0421.C37
Gene No.	118028	Strand	-
Start	279	End	360
Name	OJ000323_16.0421.C37.o1.gs	Method	GENSCAN
Start	279	End	360
GI	none	Score	.63
Exons	279..360		
Seq. No.	56403	Seq. ID	OJ000323_16.0421.C38
Gene No.	118029	Strand	+
Start	77	End	217
Name	OJ000323_16.0421.C38.o1.gs	Method	GENSCAN
Start	77	End	217
GI	none	Score	.61
Exons	77..217		
Seq. No.	56403	Seq. ID	OJ000323_16.0421.C38
Gene No.	118030	Strand	-
Start	1448	End	1581
Name	OJ000323_16.0421.C38.o1.tm	Method	TBLASTX:Maize
Start	1	End	190
GI	none	Score	106
Exons	1..117, 4..147, 5..148, 146..190		
Seq. No.	56403	Seq. ID	OJ000323_16.0421.C38
Gene No.	118030	Strand	-
Start	1448	End	1581
Name	OJ000323_16.0421.C38.o2.gs	Method	GENSCAN
Start	1448	End	1581
GI	none	Score	.77
Exons	1448..1581		
Seq. No.	56404	Seq. ID	OJ000323_16.0421.C40
Gene No.	118031	Strand	+
Start	209	End	867
Name	OJ000323_16.0421.C40.o1.gs	Method	GENSCAN
Start	209	End	867
GI	none	Score	.84
Exons	209..276, 420..519, 759..867		
Seq. No.	56405	Seq. ID	OJ000323_16.0421.C41
Gene No.	118032	Strand	+
Start	1	End	554
Name	OJ000323_16.0421.C41.o1.np	Method	AAT/NAP
Start	1	End	551
GI	5902445	Score	852
Exons	1..551		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	56405	Seq. ID	OJ000323_16.0421.C41

Gene No.	118032	Strand	+
Start	1	End	554
Name	OJ000323_16.0421.C41.ol.tw	Method	TBLASTX:Wheat
Start	3	End	542
GI	none	Score	277
Exons	3..419, 78..107, 89..217, 411..542		

Seq. No.	56405	Seq. ID	OJ000323_16.0421.C41
Gene No.	118032	Strand	+
Start	1	End	554
Name	OJ000323_16.0421.C41.ol.gs	Method	GENSCAN
Start	18	End	554
GI	none	Score	1
Exons	18..554		

Seq. No.	56405	Seq. ID	OJ000323_16.0421.C41
Gene No.	118032	Strand	+
Start	1	End	554
Name	OJ000323_16.0421.C41.ol.tm	Method	TBLASTX:Maize
Start	240	End	503
GI	none	Score	165
Exons	240..422, 362..421, 401..502, 402..503		

Seq. No.	56406	Seq. ID	OJ000323_16.0421.C42
Gene No.	118033	Strand	+
Start	1	End	1677
Name	OJ000323_16.0421.C42.ol.np	Method	AAT/NAP
Start	1	End	1677
GI	7487634	Score	323
Exons	1..65, 837..1066, 1634..1677		
GI Descrip.	hypothetical protein T3K9.8 - Arabidopsis thaliana gi 3402703 gb AAD11997.1 (AC004261) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56406	Seq. ID	OJ000323_16.0421.C42
Gene No.	118033	Strand	+
Start	1	End	1677
Name	OJ000323_16.0421.C42.ol.tc	Method	TBLASTX:Cress
Start	3	End	1048
GI	none	Score	80
Exons	3..68, 834..1034, 837..1046, 872..1048		

Seq. No.	56406	Seq. ID	OJ000323_16.0421.C42
Gene No.	118033	Strand	+
Start	1	End	1677
Name	OJ000323_16.0421.C42.ol.tm	Method	TBLASTX:Maize
Start	847	End	1676
GI	none	Score	341
Exons	847..1068, 849..1067, 863..1069, 1595..1675, 1632..1676		

Seq. No.	56407	Seq. ID	OJ000323_16.0421.C45
Gene No.	118034	Strand	-
Start	122	End	604
Name	OJ000323_16.0421.C45.ol.np	Method	AAT/NAP
Start	122	End	414
GI	7433093	Score	104
Exons	122..414		

GI Descrip. probable peroxidase (EC 1.11.1.7) F17M5.180 - Arabidopsis thaliana gi|4490309|emb|CAB38800.1| (AL035678) peroxidase ATP17a-like protein [Arabidopsis thaliana]
gi|7270290|emb|CAB80059.1| (AL161583) peroxidase ATP17a-like protein [Arabidopsis thaliana]

Seq. No.	56407	Seq. ID	OJ000323_16.0421.C45
Gene No.	118034	Strand	-
Start	122	End	604
Name	OJ000323_16.0421.C45.o1.gs	Method	GENSCAN
Start	197	End	604
GI	none	Score	.99
Exons	197..604		

Seq. No.	56408	Seq. ID	OJ000323_16.0421.C46
Gene No.	118035	Strand	+
Start	1	End	760
Name	OJ000323_16.0421.C46.o1.np	Method	AAT/NAP
Start	1	End	760
GI	7489738	Score	968
Exons	1..760		

GI Descrip. gag-pol polyprotein - maize copia-like retrotransposon Sto-4 gi|4234852|gb|AAD12997.1| (AF082133) gag-pol polyprotein [Zea mays]

Seq. No.	56408	Seq. ID	OJ000323_16.0421.C46
Gene No.	118035	Strand	+
Start	1	End	760
Name	OJ000323_16.0421.C46.o1.tm	Method	TBLASTX:Maize
Start	15	End	305
GI	none	Score	256
Exons	15..305, 149..304		

Seq. No.	56408	Seq. ID	OJ000323_16.0421.C46
Gene No.	118035	Strand	+
Start	1	End	760
Name	OJ000323_16.0421.C46.o1.ts	Method	TBLASTX:Soybean
Start	195	End	755
GI	none	Score	131
Exons	195..377, 386..487, 390..581, 570..755		

Seq. No.	56408	Seq. ID	OJ000323_16.0421.C46
Gene No.	118035	Strand	+
Start	1	End	760
Name	OJ000323_16.0421.C46.o2.tm	Method	TBLASTX:Maize
Start	318	End	755
GI	none	Score	55
Exons	318..377, 360..536, 585..755		

Seq. No.	56408	Seq. ID	OJ000323_16.0421.C46
Gene No.	118035	Strand	+
Start	1	End	760
Name	OJ000323_16.0421.C46.o1.tw	Method	TBLASTX:Wheat
Start	361	End	755
GI	none	Score	53
Exons	361..474, 365..598, 369..755		

Seq. No.	56409	Seq. ID	OJ000323_16.0421.C47
Gene No.	118036	Strand	+
Start	867	End	2106
Name	OJ000323_16.0421.C47.ol.gp	Method	AAT/GAP
Start	867	End	2106
GI	LIB3477-003-P1-K1-E9	Score	150
Exons	867..930, 2063..2106		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I)>gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	56410	Seq. ID	OJ000323_16.0421.C48
Gene No.	118037	Strand	+
Start	1	End	748
Name	OJ000323_16.0421.C48.ol.np	Method	AAT/NAP
Start	1	End	748
GI	6691716	Score	618
Exons	1..386, 584..748		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	56410	Seq. ID	OJ000323_16.0421.C48
Gene No.	118037	Strand	+
Start	1	End	748
Name	OJ000323_16.0421.C48.ol.gs	Method	GENSCAN
Start	56	End	382
GI	none	Score	.88
Exons	56..382		

Seq. No.	56411	Seq. ID	OJ000323_16.0421.C50
Gene No.	118038	Strand	-
Start	1279	End	1842
Name	OJ000323_16.0421.C50.ol.gs	Method	GENSCAN
Start	1279	End	1842
GI	none	Score	.75
Exons	1279..1842		

Seq. No.	56412	Seq. ID	OJ000323_16.0421.C53
Gene No.	118039	Strand	-
Start	1	End	793
Name	OJ000323_16.0421.C53.ol.np	Method	AAT/NAP
Start	1	End	790
GI	6694703	Score	145
Exons	1..55, 332..790		
GI Descrip.	(AF210066) dirigent-like protein [Thuja plicata]		

Seq. No.	56412	Seq. ID	OJ000323_16.0421.C53
Gene No.	118039	Strand	-
Start	1	End	793
Name	OJ000323_16.0421.C53.ol.gs	Method	GENSCAN
Start	233	End	793
GI	none	Score	.74
Exons	233..793		

Seq. No.	56413	Seq. ID	OJ000323_16.0421.C61
Gene No.	118040	Strand	+

Start	229	End	1303
Name	OJ000323_16.0421.C61.o1.np	Method	AAT/NAP
Start	229	End	1303
GI	81286	Score	108
Exons	229..423, 1014..1061, 1169..1303		
GI Descrip.	extensin - Volvox carteri (fragment) gi 21992 emb CAA46283 (X65165) extensin [Volvox carteri]		

Seq. No.	56413	Seq. ID	OJ000323_16.0421.C61
Gene No.	118040	Strand	+
Start	229	End	1303
Name	OJ000323_16.0421.C61.o1.gs	Method	GENSCAN
Start	357	End	620
GI	none	Score	.41
Exons	357..620		

Seq. No.	56413	Seq. ID	OJ000323_16.0421.C61
Gene No.	118041	Strand	-
Start	1039	End	1245
Name	OJ000323_16.0421.C61.o2.gs	Method	GENSCAN
Start	1039	End	1245
GI	none	Score	.56
Exons	1039..1245		

Seq. No.	56414	Seq. ID	OJ000323_16.0421.C64
Gene No.	118042	Strand	+
Start	1	End	1114
Name	OJ000323_16.0421.C64.o1.np	Method	AAT/NAP
Start	1	End	1114
GI	4321762	Score	232
Exons	1..34, 912..1114		
GI Descrip.	(AF061107) transcription factor MYC7E [Zea mays]		

Seq. No.	56414	Seq. ID	OJ000323_16.0421.C64
Gene No.	118042	Strand	+
Start	1	End	1114
Name	OJ000323_16.0421.C64.o1.tm	Method	TBLASTX:Maize
Start	937	End	1114
GI	none	Score	229
Exons	937..1113, 947..1114		

Seq. No.	56415	Seq. ID	OJ000323_16.0421.C65
Gene No.	118043	Strand	-
Start	981	End	2455
Name	OJ000323_16.0421.C65.o1.gs	Method	GENSCAN
Start	981	End	2036
GI	none	Score	.62
Exons	981..1318, 1378..1428, 1559..1719, 1885..2036		

Seq. No.	56415	Seq. ID	OJ000323_16.0421.C65
Gene No.	118043	Strand	-
Start	981	End	2455
Name	OJ000323_16.0421.C65.o1.np	Method	AAT/NAP
Start	1024	End	2455
GI	6069646	Score	404
Exons	1024..1832, 2414..2455		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315)		

[Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]

Seq. No.	56415	Seq. ID	OJ000323_16.0421.C65
Gene No.	118043	Strand	-
Start	981	End	2455
Name	OJ000323_16.0421.C65.o1.tm	Method	TBLASTX:Maize
Start	1128	End	1664
GI	none	Score	72
Exons	1128..1253, 1278..1484, 1369..1485, 1500..1664, 1504..1575		

Seq. No.	56416	Seq. ID	OJ000323_16.0421.C66
Gene No.	118044	Strand	+
Start	383	End	755
Name	OJ000323_16.0421.C66.o1.gs	Method	GENSCAN
Start	383	End	673
GI	none	Score	.59
Exons	383..673		

Seq. No.	56416	Seq. ID	OJ000323_16.0421.C66
Gene No.	118044	Strand	+
Start	383	End	755
Name	OJ000323_16.0421.C66.o1.np	Method	AAT/NAP
Start	528	End	755
GI	5295951	Score	154
Exons	528..755		
GI Descrip.	(AB026295) Similar to Herpesvirus papio BRRF2 homolog gene, partial cds.(U23857) [Oryza sativa]		

Seq. No.	56417	Seq. ID	OJ000323_16.0421.C67
Gene No.	118045	Strand	-
Start	1	End	865
Name	OJ000323_16.0421.C67.o1.np	Method	AAT/NAP
Start	1	End	865
GI	5902445	Score	1265
Exons	1..865		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	56417	Seq. ID	OJ000323_16.0421.C67
Gene No.	118045	Strand	-
Start	1	End	865
Name	OJ000323_16.0421.C67.o2.tm	Method	TBLASTX:Maize
Start	22	End	404
GI	none	Score	134
Exons	22..81, 81..404, 94..300		

Seq. No.	56417	Seq. ID	OJ000323_16.0421.C67
Gene No.	118045	Strand	-
Start	1	End	865
Name	OJ000323_16.0421.C67.o1.gs	Method	GENSCAN
Start	74	End	770
GI	none	Score	.95
Exons	74..365, 573..770		

Seq. No.	56417	Seq. ID	OJ000323_16.0421.C67
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Gene No. 118045
 Start 1
 Name OJ000323_16.0421.C67.o1.ts
 Start 135
 GI none
 Exons 135..212, 135..359, 142..279

Strand -
 End 865
 Method TBLASTX:Soybean
 End 359
 Score 68

Seq. No. 56417
 Gene No. 118045
 Start 1
 Name OJ000323_16.0421.C67.o1.tw
 Start 144
 GI none
 Exons 144..563, 145..561

Seq. ID OJ000323_16.0421.C67
 Strand -
 End 865
 Method TBLASTX:Wheat
 End 563
 Score 239

Seq. No. 56417
 Gene No. 118045
 Start 1
 Name OJ000323_16.0421.C67.o1.tm
 Start 432
 GI none
 Exons 432..788, 442..747

Seq. ID OJ000323_16.0421.C67
 Strand -
 End 865
 Method TBLASTX:Maize
 End 788
 Score 192

Seq. No. 56417
 Gene No. 118045
 Start 1
 Name OJ000323_16.0421.C67.o2.tw
 Start 563
 GI none
 Exons 563..727, 564..800, 565..807

Seq. ID OJ000323_16.0421.C67
 Strand -
 End 865
 Method TBLASTX:Wheat
 End 807
 Score 149

Seq. No. 56418
 Gene No. 118047
 Start 1660
 Name OJ000323_16.0421.C72.o2.np
 Start 1660
 GI 6522918
 Exons 1660..1720, 2954..3190, 3446..3799
 GI Descrip. (AL132978) putative protein [Arabidopsis thaliana]

Seq. ID OJ000323_16.0421.C72
 Strand +
 End 3799
 Method AAT/NAP
 End 3799
 Score 173

Seq. No. 56418
 Gene No. 118048
 Start 1173
 Name OJ000323_16.0421.C72.o1.gs
 Start 1173
 GI none
 Exons 1173..1526, 1604..2215

Seq. ID OJ000323_16.0421.C72
 Strand -
 End 2215
 Method GENSCAN
 End 2215
 Score .69

Seq. No. 56418
 Gene No. 118049
 Start 3434
 Name OJ000323_16.0421.C72.o2.ts
 Start 1574
 GI none
 Exons 1574..1621, 1574..1669, 1602..1661, 1736..1936, 1761..1940

Seq. ID OJ000323_16.0421.C72
 Strand -
 End 3799
 Method TBLASTX:Soybean
 End 1940
 Score 36

Seq. No. 56418

Seq. ID OJ000323_16.0421.C72

Gene No.	118049	Strand	-
Start	3434	End	3799
Name	OJ000323_16.0421.C72.o1.tm	Method	TBLASTX:Maize
Start	2954	End	3187
GI	none	Score	208
Exons	2954..3187, 2977..3093		

Seq. No.	56418	Seq. ID	OJ000323_16.0421.C72
Gene No.	118049	Strand	-
Start	3434	End	3799
Name	OJ000323_16.0421.C72.o1.ts	Method	TBLASTX:Soybean
Start	2954	End	3199
GI	none	Score	211
Exons	2954..3199, 2968..3084		

Seq. No.	56418	Seq. ID	OJ000323_16.0421.C72
Gene No.	118049	Strand	-
Start	3434	End	3799
Name	OJ000323_16.0421.C72.o3.gs	Method	GENSCAN
Start	3434	End	3784
GI	none	Score	.96
Exons	3434..3784		

Seq. No.	56418	Seq. ID	OJ000323_16.0421.C72
Gene No.	118049	Strand	-
Start	3434	End	3799
Name	OJ000323_16.0421.C72.o1.tw	Method	TBLASTX:Wheat
Start	3557	End	3799
GI	none	Score	55
Exons	3557..3703, 3565..3621, 3570..3641, 3635..3799, 3642..3794, 3707..3799		

Seq. No.	56419	Seq. ID	OJ000323_16.0421.C73
Gene No.	118050	Strand	+
Start	1496	End	2060
Name	OJ000323_16.0421.C73.o1.gp	Method	AAT/GAP
Start	1440	End	1816
GI	uC-osroM202005a05b1	Score	726
Exons	1440..1816		
GI Descrip.	'1546692/emb CAA67337 3.0e-15 (X98805) peroxidase ATP19a [Arabidopsis thaliana]'		

Seq. No.	56419	Seq. ID	OJ000323_16.0421.C73
Gene No.	118050	Strand	+
Start	1496	End	2060
Name	OJ000323_16.0421.C73.o1.gs	Method	GENSCAN
Start	1496	End	2002
GI	none	Score	.97
Exons	1496..2002		

Seq. No.	56419	Seq. ID	OJ000323_16.0421.C73
Gene No.	118050	Strand	+
Start	1496	End	2060
Name	OJ000323_16.0421.C73.o1.np	Method	AAT/NAP
Start	1496	End	2060
GI	4760700	Score	384
Exons	1496..1566, 1630..2060		

GI Descrip. (AB024437) peroxidase 1 [Scutellaria baicalensis]

Seq. No.	56419	Seq. ID	OJ000323_16.0421.C73
Gene No.	118050	Strand	+
Start	1496	End	2060
Name	OJ000323_16.0421.C73.ol.tc	Method	TBLASTX:Cress
Start	1619	End	2059
GI	none	Score	359
Exons	1619..1957, 1735..1956, 1961..2059, 1978..2043		

Seq. No.	56419	Seq. ID	OJ000323_16.0421.C73
Gene No.	118050	Strand	+
Start	1496	End	2060
Name	OJ000323_16.0421.C73.ol.tm	Method	TBLASTX:Maize
Start	1619	End	2059
GI	none	Score	385
Exons	1619..2059, 1726..2058		

Seq. No.	56419	Seq. ID	OJ000323_16.0421.C73
Gene No.	118050	Strand	+
Start	1496	End	2060
Name	OJ000323_16.0421.C73.ol.ts	Method	TBLASTX:Soybean
Start	1619	End	2020
GI	none	Score	-325
Exons	1619..1969, 1735..1962, 1961..2020		

Seq. No.	56419	Seq. ID	OJ000323_16.0421.C73
Gene No.	118050	Strand	+
Start	1496	End	2060
Name	OJ000323_16.0421.C73.ol.tw	Method	TBLASTX:Wheat
Start	1619	End	1939
GI	none	Score	181
Exons	1619..1822, 1648..1821, 1807..1938, 1808..1939		

Seq. No.	56420	Seq. ID	OJ000323_16.0421.C75
Gene No.	118051	Strand	-
Start	132	End	1550
Name	OJ000323_16.0421.C75.ol.gs	Method	GENSCAN
Start	132	End	1354
GI	none	Score	.88
Exons	132..238, 491..595, 1092..1151, 1243..1354		

Seq. No.	56420	Seq. ID	OJ000323_16.0421.C75
Gene No.	118051	Strand	-
Start	132	End	1550
Name	OJ000323_16.0421.C75.ol.np	Method	AAT/NAP
Start	482	End	1550
GI	3493131	Score	317
Exons	482..595, 1092..1151, 1243..1354, 1511..1550		
GI Descrip.	(AF081570) thymidylate kinase [Arabidopsis thaliana]		

Seq. No.	56421	Seq. ID	OJ000323_16.0421.C76
Gene No.	118052	Strand	+
Start	152	End	1147
Name	OJ000323_16.0421.C76.ol.tm	Method	TBLASTX:Maize
Start	2	End	256
GI	none	Score	289

Exons 2..256, 3..242

Seq. No.	56421	Seq. ID	OJ000323_16.0421.C76
Gene No.	118052	Strand	+
Start	152	End	1147
Name	OJ000323_16.0421.C76.ol.gs	Method	GENSCAN
Start	152	End	781
GI	none	Score	.83
Exons	152..488, 585..682, 723..781		

Seq. No.	56421	Seq. ID	OJ000323_16.0421.C76
Gene No.	118052	Strand	+
Start	152	End	1147
Name	OJ000323_16.0421.C76.ol.np	Method	AAT/NAP
Start	422	End	1147
GI	7299975	Score	151
Exons	422..488, 585..682, 1074..1147		
GI Descrip.	(AE003708) CG6563 gene product [<i>Drosophila melanogaster</i>]		

Seq. No.	56422	Seq. ID	OJ000323_16.0421.C78
Gene No.	118053	Strand	-
Start	73	End	618
Name	OJ000323_16.0421.C78.ol.gs	Method	GENSCAN
Start	73	End	618
GI	none	Score	.73
Exons	73..618		

Seq. No.	56423	Seq. ID	OJ000323_16.0421.C79
Gene No.	118054	Strand	+
Start	327	End	521
Name	OJ000323_16.0421.C79.ol.gs	Method	GENSCAN
Start	327	End	521
GI	none	Score	.5
Exons	327..521		

Seq. No.	56423	Seq. ID	OJ000323_16.0421.C79
Gene No.	118055	Strand	+
Start	1223	End	1698
Name	OJ000323_16.0421.C79.ol.gp	Method	AAT/GAP
Start	1184	End	1564
GI	uC-osrocyp006h07b1	Score	694
Exons	1184..1564		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 2.0e-55 <i>Oryza sativa</i> genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	56423	Seq. ID	OJ000323_16.0421.C79
Gene No.	118055	Strand	+
Start	1223	End	1698
Name	OJ000323_16.0421.C79.ol.ts	Method	TBLASTX:Soybean
Start	1205	End	1698
GI	none	Score	82
Exons	1205..1291, 1228..1290, 1307..1399, 1333..1374, 1453..1605, 1454..1606, 1594..1698, 1641..1694		

Seq. No.	56423	Seq. ID	OJ000323_16.0421.C79
Gene No.	118055	Strand	+
Start	1223	End	1698

Name	OJ000323_16.0421.C79.o1.np	Method	AAT/NAP
Start	1220	End	1698
GI	4558556	Score	345
Exons	1220..1698		
GI Descrip.	(AC007138). predicted protein of unknown function [Arabidopsis thaliana]		

Seq. No.	56423	Seq. ID	OJ000323_16.0421.C79
Gene No.	118055	Strand	+
Start	1223	End	1698
Name	OJ000323_16.0421.C79.o2.gs	Method	GENSCAN
Start	1223	End	1627
GI	none	Score	.91
Exons	1223..1627		

Seq. No.	56424	Seq. ID	OJ000323_16.0421.C80
Gene No.	118056	Strand	+
Start	1	End	3321
Name	OJ000323_16.0421.C80.o1.np	Method	AAT/NAP
Start	1	End	1086
GI	4558556	Score	1036
Exons	1..1086		
GI Descrip.	(AC007138) predicted protein of unknown function [Arabidopsis thaliana]		

Seq. No.	56424	Seq. ID	OJ000323_16.0421.C80
Gene No.	118056	Strand	+
Start	1	End	3321
Name	OJ000323_16.0421.C80.o1.gs	Method	GENSCAN
Start	125	End	1089
GI	none	Score	.56
Exons	125..792, 804..1089		

Seq. No.	56424	Seq. ID	OJ000323_16.0421.C80
Gene No.	118056	Strand	+
Start	1	End	3321
Name	OJ000323_16.0421.C80.o2.np	Method	AAT/NAP
Start	210	End	3321
GI	6630699	Score	98
Exons	210..311, 488..631, 3233..3321		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1 (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	56424	Seq. ID	OJ000323_16.0421.C80
Gene No.	118057	Strand	+
Start	3457	End	3904
Name	OJ000323_16.0421.C80.o3.np	Method	AAT/NAP
Start	3457	End	3904
GI	6539570	Score	192
Exons	3457..3653, 3838..3904		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	56424	Seq. ID	OJ000323_16.0421.C80
Gene No.	118058	Strand	-
Start	1046	End	1418
Name	OJ000323_16.0421.C80.o1.gp	Method	AAT/GAP

Start 1046
GI none
Exons 1046..1418

End 1418
Score 722

Seq. No. 56424 Seq. ID OJ000323_16.0421.C80
Gene No. 118059 Strand -
Start 2646 End 3666
Name OJ000323_16.0421.C80.o1.tc Method TBLASTX:Cress
Start 14 End 1089
GI none Score 54
Exons 14..55, 89..571, 106..534, 536..703, 575..778, 604..726,
611..739, 775..966, 792..974, 1003..1089

Seq. No. 56424 Seq. ID OJ000323_16.0421.C80
Gene No. 118059 Strand -
Start 2646 End 3666
Name OJ000323_16.0421.C80.o2.ts Method TBLASTX:Soybean
Start 208 End 556
GI none Score 344
Exons 208..534, 209..556, 209..556

Seq. No. 56424 Seq. ID OJ000323_16.0421.C80
Gene No. 118059 Strand -
Start 2646 End 3666
Name OJ000323_16.0421.C80.o1.tm Method TBLASTX:Maize
Start 563 End 867
GI none Score 310
Exons 563..730, 572..778, 604..744, 713..820, 775..867, 783..866

Seq. No. 56424 Seq. ID OJ000323_16.0421.C80
Gene No. 118059 Strand -
Start 2646 End 3666
Name OJ000323_16.0421.C80.o1.ts Method TBLASTX:Soybean
Start 581 End 930
GI none Score 228
Exons 581..748, 584..730, 604..744, 775..930, 789..929

Seq. No. 56424 Seq. ID OJ000323_16.0421.C80
Gene No. 118059 Strand -
Start 2646 End 3666
Name OJ000323_16.0421.C80.o2.gs Method GENSCAN
Start 2646 End 3538
GI none Score .68
Exons 2646..2760, 3196..3315, 3384..3538

Seq. No. 56424 Seq. ID OJ000323_16.0421.C80
Gene No. 118059 Strand -
Start 2646 End 3666
Name OJ000323_16.0421.C80.o1.tw Method TBLASTX:Wheat
Start 2767 End 3171
GI none Score 218
Exons 2767..3171

Seq. No. 56424 Seq. ID OJ000323_16.0421.C80
Gene No. 118059 Strand -
Start 2646 End 3666
Name OJ000323_16.0421.C80.o2.gp Method AAT/GAP

Start	3234	End	3666
GI	LIB3479-006-Q6-K1-B11		Score 649
Exons	3234..3666		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 1.0e-110 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	56425	Seq. ID	OJ000323_16.0421.C81
Gene No.	118060	Strand	+
Start	1	End	793
Name	OJ000323_16.0421.C81.o1.gp	Method	AAT/GAP
Start	1	End	793
GI	584 1.R1084	Score	1279
Exons	1..54, 154..793		
GI Descrip.	'1710078/sp P52573 REHY_ORYSA 1.0e-122 RAB24 PROTEIN >gi_971280_dbj_BAA09947_ (D63917) RAB24 protein [Oryza sativa]'		

Seq. No.	56425	Seq. ID	OJ000323_16.0421.C81
Gene No.	118060	Strand	+
Start	1	End	793
Name	OJ000323_16.0421.C81.o1.np	Method	AAT/NAP
Start	1	End	546
GI	1710078	Score	733
Exons	1..54, 154..546		
GI Descrip.	RAB24 PROTEIN gi 7432684 pir T03967 RAB24 protein - rice gi 971280 dbj BAA09947.1 (D63917) RAB24 protein [Oryza sativa]		

Seq. No.	56425	Seq. ID	OJ000323_16.0421.C81
Gene No.	118060	Strand	+
Start	1	End	793
Name	OJ000323_16.0421.C81.o1.gs	Method	GENSCAN
Start	154	End	549
GI	none	Score	.52
Exons	154..549		

Seq. No.	56425	Seq. ID	OJ000323_16.0421.C81
Gene No.	118061	Strand	+
Start	2526	End	3405
Name	OJ000323_16.0421.C81.o2.gs	Method	GENSCAN
Start	2526	End	3405
GI	none	Score	1
Exons	2526..2643, 2747..2895, 3010..3405		

Seq. No.	56425	Seq. ID	OJ000323_16.0421.C81
Gene No.	118061	Strand	+
Start	2526	End	3405
Name	OJ000323_16.0421.C81.o2.np	Method	AAT/NAP
Start	2526	End	3402
GI	1710078	Score	879
Exons	2526..2643, 2747..2895, 3010..3402		
GI Descrip.	RAB24 PROTEIN gi 7432684 pir T03967 RAB24 protein - rice gi 971280 dbj BAA09947.1 (D63917) RAB24 protein [Oryza sativa]		

Seq. No.	56425	Seq. ID	OJ000323_16.0421.C81
Gene No.	118062	Strand	-
Start	3140	End	3723
Name	OJ000323_16.0421.C81.o2.gp	Method	AAT/GAP
Start	3140	End	3723

GI 50471.1.R1084. Score 1130
 Exons 3140..3723
 GI Descrip. '1710076/sp|P52571|REHY_BROSE 1.0e-27 REHYDRIN HOMOLOG
 (DORMANCY-ASSOCIATED PROTEIN PBS128) >gi_82340_pir_S22499
 hypothetical protein - chess bromegrass (fragment)
 >gi_17932_emb_CAA44884_ (X63202) ORF [Bromus secalinus]'

Seq. No. 56425 Seq. ID OJ000323_16.0421.C81
 Gene No. 118063 Strand -
 Start 4845 End 4963
 Name OJ000323_16.0421.C81.o1.tc Method TBLASTX:Cress
 Start 1 End 3420
 GI none Score 95
 Exons 1..51, 157..237, 256..348, 261..392, 262..393, 397..549,
 399..542, 2522..2587, 2526..2711, 2748..2888, 2749..2892,
 3013..3093, 3030..3080, 3117..3248, 3118..3210, 3247..3420,
 3255..3398

Seq. No. 56425 Seq. ID OJ000323_16.0421.C81
 Gene No. 118063 Strand -
 Start 4845 End 4963
 Name OJ000323_16.0421.C81.o1.tm Method TBLASTX:Maize
 Start 1 End 2894
 GI none Score 81
 Exons 1..51, 2514..2657, 2522..2719, 2740..2892, 2745..2888,
 2751..2894

Seq. No. 56425 Seq. ID OJ000323_16.0421.C81
 Gene No. 118063 Strand -
 Start 4845 End 4963
 Name OJ000323_16.0421.C81.o1.ts Method TBLASTX:Soybean
 Start 1 End 3323
 GI none Score 90
 Exons 1..51, 3..53, 153..251, 154..252, 166..252, 235..309, 252..317,
 282..467, 301..465, 2522..2644, 2526..2654, 2748..2894,
 2749..2892, 3009..3077, 3010..3108, 3109..3165, 3135..3188,
 3138..3323, 3157..3321

Seq. No. 56425 Seq. ID OJ000323_16.0421.C81
 Gene No. 118063 Strand -
 Start 4845 End 4963
 Name OJ000323_16.0421.C81.o2.tm Method TBLASTX:Maize
 Start 152 End 3249
 GI none Score 317
 Exons 152..241, 163..393, 165..392, 3019..3249, 3021..3248

Seq. No. 56425 Seq. ID OJ000323_16.0421.C81
 Gene No. 118063 Strand -
 Start 4845 End 4963
 Name OJ000323_16.0421.C81.o3.tm Method TBLASTX:Maize
 Start 396 End 3398
 GI none Score 207
 Exons 396..542, 397..540, 498..542, 3250..3396, 3252..3398, 3318..3398

Seq. No. 56425 Seq. ID OJ000323_16.0421.C81
 Gene No. 118063 Strand -
 Start 4845 End 4963

Name	OJ000323_16.0421.C81.o3.gs	Method	GENSCAN
Start	4845	End	4963
GI	none	Score	.4
Exons	4845..4963		
Seq. No.	56426	Seq. ID	OJ000323_16.0421.C82
Gene No.	118064	Strand	+
Start	626	End	1228
Name	OJ000323_16.0421.C82.o1.gs	Method	GENSCAN
Start	626	End	1228
GI	none	Score	.79
Exons	626..1228		
Seq. No.	56426	Seq. ID	OJ000323_16.0421.C82
Gene No.	118064	Strand	+
Start	626	End	1228
Name	OJ000323_16.0421.C82.o1.np	Method	AAT/NAP
Start	635	End	1222
GI	6692115	Score	360
Exons	635..1222		
GI Descrip.	(AC007764) F22C12.8 [Arabidopsis thaliana]		
Seq. No.	56426	Seq. ID	OJ000323_16.0421.C82
Gene No.	118065	Strand	-
Start	1990	End	2305
Name	OJ000323_16.0421.C82.o1.tc	Method	TBLASTX:Cress
Start	731	End	1243
GI	none	Score	48
Exons	731..778, 860..901, 932..1159, 1009..1158, 1180..1221, 1181..1243		
Seq. No.	56426	Seq. ID	OJ000323_16.0421.C82
Gene No.	118065	Strand	-
Start	1990	End	2305
Name	OJ000323_16.0421.C82.o2.gs	Method	GENSCAN
Start	1990	End	2305
GI	none	Score	.9
Exons	1990..2305		
Seq. No.	56427	Seq. ID	OJ000323_16.0421.C86
Gene No.	118066	Strand	-
Start	1	End	1032
Name	OJ000323_16.0421.C86.o1.np	Method	AAT/NAP
Start	1	End	1032
GI	4234846	Score	591
Exons	1..829, 872..1032		
GI Descrip.	(AF082130) gag-pol polyprotein [Zea mays]		
Seq. No.	56427	Seq. ID	OJ000323_16.0421.C86
Gene No.	118066	Strand	-
Start	1	End	1032
Name	OJ000323_16.0421.C86.o1.tm	Method	TBLASTX:Maize
Start	2	End	940
GI	none	Score	50
Exons	2..85, 190..321, 209..250, 331..939, 362..940		
Seq. No.	56428	Seq. ID	OJ000323_16.0421.C90

Gene No.	118067	Strand	+
Start	3930	End	4620
Name	OJ000323_16.0421.C90.o2.gs	Method	GENSCAN
Start	3930	End	4620
GI	none	Score	.83
Exons	3930..4039, 4114..4276, 4435..4620		

Seq. No.	56428	Seq. ID	OJ000323_16.0421.C90
Gene No.	118068	Strand	+
Start	7610	End	7791
Name	OJ000323_16.0421.C90.o3.np	Method	AAT/NAP
Start	7610	End	7791
GI	5902448	Score	283
Exons	7610..7791		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	56428	Seq. ID	OJ000323_16.0421.C90
Gene No.	118069	Strand	-
Start	1059	End	2048
Name	OJ000323_16.0421.C90.o1.gs	Method	GENSCAN
Start	1059	End	2048
GI	none	Score	.7
Exons	1059..2048		

Seq. No.	56428	Seq. ID	OJ000323_16.0421.C90
Gene No.	118069	Strand	-
Start	1059	End	2048
Name	OJ000323_16.0421.C90.o1.np	Method	AAT/NAP
Start	1059	End	2017
GI	4760700	Score	562
Exons	1059..2017		
GI Descrip.	(AB024437) peroxidase 1 [Scutellaria baicalensis]		

Seq. No.	56428	Seq. ID	OJ000323_16.0421.C90
Gene No.	118070	Strand	-
Start	5333	End	7270
Name	OJ000323_16.0421.C90.o1.ts	Method	TBLASTX:Soybean
Start	1017	End	6082
GI	none	Score	70
Exons	1017..1160, 1215..1301, 1371..1589, 1411..1485, 1602..1676, 1680..1838, 1681..1830, 1890..1964, 4034..4102, 5339..5434, 5489..5575, 5645..5863, 5685..5849, 5897..5947, 5951..5992, 6038..6082		

Seq. No.	56428	Seq. ID	OJ000323_16.0421.C90
Gene No.	118070	Strand	-
Start	5333	End	7270
Name	OJ000323_16.0421.C90.o1.tc	Method	TBLASTX:Cress
Start	1059	End	6082
GI	none	Score	73
Exons	1059..1154, 1215..1310, 1377..1589, 1390..1473, 1446..1586, 1602..1751, 1633..1752, 1764..1841, 1765..1827, 4034..4168, 5333..5428, 5489..5584, 5651..5857, 5664..5855, 5894..6061, 5907..5993, 6008..6082		

Seq. No.	56428	Seq. ID	OJ000323_16.0421.C90
Gene No.	118070	Strand	-

Start	5333	End	7270
Name	OJ000323_16.0421.C90.o2.tm	Method	TBLASTX:Maize
Start	1062	End	5693
GI	none	Score	100
Exons	1062..1172, 1062..1193, 1063..1191, 1233..1364, 1234..1332, 1333..1419, 4016..4090, 4025..4090, 4132..4176, 4192..4245, 4193..4246, 5336..5446, 5336..5467, 5507..5638, 5508..5606, 5607..5693		

Seq. No.	56428	Seq. ID	OJ000323_16.0421.C90
Gene No.	118070	Strand	-
Start	5333	End	7270
Name	OJ000323_16.0421.C90.o1.tw	Method	TBLASTX:Wheat
Start	1371	End	6082
GI	none	Score	77
Exons	1371..1592, 1411..1578, 1602..1838, 1603..1830, 1890..1961, 5645..5863, 5685..5852, 5894..6001, 5895..6080, 6038..6082		

Seq. No.	56428	Seq. ID	OJ000323_16.0421.C90
Gene No.	118070	Strand	-
Start	5333	End	7270
Name	OJ000323_16.0421.C90.o1.tm	Method	TBLASTX:Maize
Start	1422	End	6082
GI	none	Score	245
Exons	1422..1841, 1516..1827, 1878..1952, 5696..6082, 5790..6080		

Seq. No.	56428	Seq. ID	OJ000323_16.0421.C90
Gene No.	118070	Strand	-
Start	5333	End	7270
Name	OJ000323_16.0421.C90.o2.np	Method	AAT/NAP
Start	5333	End	7270
GI	4760700	Score	461
Exons	5333..6079, 7161..7270		
GI Descrip.	(AB024437) peroxidase 1 [Scutellaria baicalensis]		

Seq. No.	56428	Seq. ID	OJ000323_16.0421.C90
Gene No.	118070	Strand	-
Start	5333	End	7270
Name	OJ000323_16.0421.C90.o3.gs	Method	GENSCAN
Start	5333	End	6629
GI	none	Score	.92
Exons	5333..6079, 6549..6629		

Seq. No.	56428	Seq. ID	OJ000323_16.0421.C90
Gene No.	118070	Strand	-
Start	5333	End	7270
Name	OJ000323_16.0421.C90.o1.gp	Method	AAT/GAP
Start	6158	End	6306
GI	uC-osflcyp177g01a1	Score	238
Exons	6158..6306		
GI Descrip.	'4884864/gb AAD31846.1 AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'		

Seq. No.	56429	Seq. ID	OJ000323_16.0421.C91
Gene No.	118071	Strand	+
Start	1	End	1926
Name	OJ000323_16.0421.C91.o1.np	Method	AAT/NAP

Start	1	End	1926
GI	6691716	Score	874
Exons	1..199, 397..572, 654..921, 1097..1291, 1367..1478, 1629..1733, 1806..1926		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	56429	Seq. ID	OJ000323_16.0421.C91
Gene No.	118071	Strand	+
Start	1	End	1926
Name	OJ000323_16.0421.C91.o1.gs	Method	GENSCAN
Start	98	End	1847
GI	none	Score	.73
Exons	98..199, 397..572, 654..958, 1104..1291, 1367..1556, 1629..1733, 1806..1847		

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o1.np	Method	AAT/NAP
Start	1	End	2795
GI	5902445	Score	4718
Exons	1..2795		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o5.tw	Method	TBLASTX:Wheat
Start	27	End	485
GI	none	Score	77
Exons	27..152, 207..485, 223..324		

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o1.gs	Method	GENSCAN
Start	33	End	2736
GI	none	Score	.62
Exons	33..1506, 1565..2736		

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o5.tm	Method	TBLASTX:Maize
Start	255	End	528
GI	none	Score	63
Exons	255..341, 351..434, 352..438, 429..527, 430..528		

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o2.tw	Method	TBLASTX:Wheat
Start	600	End	987
GI	none	Score	108
Exons	600..785, 600..986, 676..987		

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o1.tm	Method	TBLASTX:Maize
Start	630	End	992
GI	none	Score	67
Exons	630..677, 631..678, 658..972,		669..992, 682..972

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o7.tw	Method	TBLASTX:Wheat
Start	990	End	1289
GI	none	Score	132
Exons	990..1130, 1155..1289		

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o4.tm	Method	TBLASTX:Maize
Start	1221	End	1475
GI	none	Score	192
Exons	1221..1475		

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o4.tw	Method	TBLASTX:Wheat
Start	1305	End	1725
GI	none	Score	119
Exons	1305..1520, 1315..1521, 1514..1540, 1546..1725, 1547..1717		

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o2.ts	Method	TBLASTX:Soybean
Start	1348	End	1734
GI	none	Score	71
Exons	1348..1488, 1350..1472, 1543..1590, 1544..1726, 1630..1734		

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o3.tw	Method	TBLASTX:Wheat
Start	1762	End	2191
GI	none	Score	128
Exons	1762..2190, 1919..2191		

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o2.tm	Method	TBLASTX:Maize
Start	1849	End	2293
GI	none	Score	86
Exons	1849..1875, 1885..2016, 1886..2017, 2039..2293, 2065..2292		

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o1.ts	Method	TBLASTX:Soybean
Start	1960	End	2391
GI	none	Score	123
Exons	1960..2391, 2201..2344		

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o1.tw	Method	TBLASTX:Wheat
Start	2236	End	2655
GI	none	Score	235
Exons	2236..2655, 2237..2653		

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o3.tm	Method	TBLASTX:Maize
Start	2524	End	2793
GI	none	Score	182
Exons	2524..2793, 2534..2791		

Seq. No.	56430	Seq. ID	OJ000323_16.0421.C92
Gene No.	118072	Strand	-
Start	1	End	2795
Name	OJ000323_16.0421.C92.o6.tw	Method	TBLASTX:Wheat
Start	2655	End	2793
GI	none	Score	71
Exons	2655..2783, 2656..2784, 2656..2793, 2657..2791		

Seq. No.	56431	Seq. ID	OJ000323_16.0421.C93
Gene No.	118073	Strand	-
Start	114	End	2438
Name	OJ000323_16.0421.C93.o1.tw	Method	TBLASTX:Wheat
Start	6	End	782
GI	none	Score	112
Exons	6..278, 7..213, 325..561, 327..557, 606..719, 606..782		

Seq. No.	56431	Seq. ID	OJ000323_16.0421.C93
Gene No.	118073	Strand	-
Start	114	End	2438
Name	OJ000323_16.0421.C93.o1.gs	Method	GENSCAN
Start	114	End	2387
GI	none	Score	.94
Exons	114..2387		

Seq. No.	56431	Seq. ID	OJ000323_16.0421.C93
Gene No.	118073	Strand	-
Start	114	End	2438
Name	OJ000323_16.0421.C93.o1.np	Method	AAT/NAP
Start	117	End	2438
GI	5902444	Score	3853
Exons	117..2438		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	56431	Seq. ID	OJ000323_16.0421.C93
Gene No.	118073	Strand	-
Start	114	End	2438
Name	OJ000323_16.0421.C93.o2.tw	Method	TBLASTX:Wheat
Start	1356	End	1758
GI	none	Score	117
Exons	1356..1757, 1489..1758		

Seq. No.	56432	Seq. ID	OJ000323_16.0421.C100
Gene No.	118074	Strand	+
Start	304	End	732
Name	OJ000323_16.0421.C100.o1.gp	Method	AAT/GAP
Start	304	End	732
GI	uC-osroM202029b02b1	Score	813
Exons	304..732		
GI Descrip.	'1621493/dbj BAA12902 4.0e-42 (D85876) reverse transcriptase [Oryza sativa]'		

Seq. No.	56432	Seq. ID	OJ000323_16.0421.C100
Gene No.	118075	Strand	-
Start	135	End	506
Name	OJ000323_16.0421.C100.o1.gs	Method	GENSCAN
Start	135	End	506
GI	none	Score	.96
Exons	135..176, 375..506		

Seq. No.	56433	Seq. ID	OJ000403_18.0419.C2
Gene No.	118076	Strand	+
Start	1	End	4170
Name	OJ000403_18.0419.C2.o1.gp	Method	AAT/GAP
Start	1	End	1702
GI	14955_1.R1084	Score	664
Exons	1..74, 549..606, 700..800, 1222..1317, 1409..1502, 1670..1702		
GI Descrip.	'2370461/emb CAA74991 2.0e-32 (Y14675) putative glycoprotein [Sorghum bicolor]'		

Seq. No.	56433	Seq. ID	OJ000403_18.0419.C2
Gene No.	118076	Strand	+
Start	1	End	4170
Name	OJ000403_18.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	1266
GI	7452482	Score	232
Exons	1..74, 549..606, 700..798, 1221..1266		
GI Descrip.	probable glycoprotein NS4 - sorghum gi 2370461 emb CAA74991.1 (Y14675) putative glycoprotein [Sorghum bicolor]		

Seq. No.	56433	Seq. ID	OJ000403_18.0419.C2
Gene No.	118076	Strand	+
Start	1	End	4170
Name	OJ000403_18.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	2	End	4060
GI	none	Score	102
Exons	2..76, 3..77, 532..606, 536..607, 537..605, 547..606, 548..607, 687..800, 689..802, 695..802, 1216..1317, 1218..1343, 1220..1318, 1378..1506, 1382..1504, 2844..3092, 2846..3085, 2859..3101, 2863..3099, 3704..4060, 3708..3965		

Seq. No.	56433	Seq. ID	OJ000403_18.0419.C2
Gene No.	118076	Strand	+
Start	1	End	4170
Name	OJ000403_18.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	2	End	1295
GI	none	Score	122
Exons	2..76, 5..76, 532..603, 536..607, 537..605, 546..608, 687..800, 690..800, 695..802, 700..804, 1214..1294, 1215..1295		

Seq. No.	56433	Seq. ID	OJ000403_18.0419.C2
Gene No.	118076	Strand	+
Start	1	End	4170
Name	OJ000403_18.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	543	End	1266
GI	none	Score	95
Exons	543..605, 548..604, 683..796, 687..800, 696..800, 713..802, 1216..1266		

Seq. No.	56433	Seq. ID	OJ000403_18.0419.C2
Gene No.	118076	Strand	+
Start	1	End	4170
Name	OJ000403_18.0419.C2.o2.tc	Method	TBLASTX:Cress
Start	546	End	1459
GI	none	Score	69
Exons	546..605, 548..604, 687..800, 695..802, 696..800, 724..804, 1215..1313, 1216..1314, 1382..1459		

Seq. No.	56433	Seq. ID	OJ000403_18.0419.C2
Gene No.	118076	Strand	+
Start	1	End	4170
Name	OJ000403_18.0419.C2.o1.gs	Method	GENSCAN
Start	700	End	4082
GI	none	Score	.78
Exons	700..800, 822..956, 1222..1317, 1409..1502, 2854..3091, 3716..4082		

Seq. No.	56433	Seq. ID	OJ000403_18.0419.C2
Gene No.	118076	Strand	+
Start	1	End	4170
Name	OJ000403_18.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	1267	End	3962
GI	none	Score	81
Exons	1267..1317, 1267..1317, 1369..1503, 1382..1504, 1382..1504, 2844..3092, 2846..3085, 2859..3098, 2878..3099, 3704..3955, 3708..3962		

Seq. No.	56433	Seq. ID	OJ000403_18.0419.C2
Gene No.	118076	Strand	+
Start	1	End	4170
Name	OJ000403_18.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	3771	End	4006
GI	none	Score	226
Exons	3771..3965, 3776..3964, 3803..4006		

Seq. No.	56433	Seq. ID	OJ000403_18.0419.C2
Gene No.	118076	Strand	+
Start	1	End	4170

Name	OJ000403_18.0419.C2.o2.tw	Method	TBLASTX:Wheat
Start	3802	End	3961
GI	none	Score	209
Exons	3802..3936, 3803..3961, 3804..3956		
Seq. No.	56433	Seq. ID	OJ000403_18.0419.C2
Gene No.	118076	Strand	+
Start	1	End	4170
Name	OJ000403_18.0419.C2.o2.gp	Method	AAT/GAP
Start	3813	End	4170
GI	3760975	Score	689
Exons	3813..4170		
Seq. No.	56434	Seq. ID	OJ000403_18.0419.C3
Gene No.	118077	Strand	+
Start	204	End	581
Name	OJ000403_18.0419.C3.o1.gs	Method	GENSCAN
Start	204	End	581
GI	none	Score	1
Exons	204..581		
Seq. No.	56434	Seq. ID	OJ000403_18.0419.C3
Gene No.	118078	Strand	+
Start	2821	End	4909
Name	OJ000403_18.0419.C3.o2.gs	Method	GENSCAN
Start	2821	End	4909
GI	none	Score	.64
Exons	2821..2862, 2868..3056, 4570..4735, 4746..4909		
Seq. No.	56434	Seq. ID	OJ000403_18.0419.C3
Gene No.	118078	Strand	+
Start	2821	End	4909
Name	OJ000403_18.0419.C3.o1.np	Method	AAT/NAP
Start	3144	End	4866
GI	5922619	Score	90
Exons	3144..3284, 4759..4866		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016852 dbj BAA85195.1 (AP000570) hypothetical protein [Oryza sativa]		
Seq. No.	56434	Seq. ID	OJ000403_18.0419.C3
Gene No.	118079	Strand	+
Start	7316	End	7528
Name	OJ000403_18.0419.C3.o1.gp	Method	AAT/GAP
Start	7316	End	7528
GI	none	Score	414
Exons	7316..7528		
Seq. No.	56434	Seq. ID	OJ000403_18.0419.C3
Gene No.	118080	Strand	-
Start	5005	End	5085
Name	OJ000403_18.0419.C3.o2.np	Method	AAT/NAP
Start	5005	End	5085
GI	6630699	Score	71
Exons	5005..5085		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1 (AP001073) hypothetical protein		

[Oryza sativa]

Seq. No.	56435	Seq. ID	OJ000403_18.0419.C4
Gene No.	118081	Strand	+
Start	1	End	5079
Name	OJ000403_18.0419.C4.o2.np	Method	AAT/NAP
Start	1	End	4206
GI	7440006	Score	332
Exons	1..27, 3439..3682, 3859..3912, 3958..4206		
GI Descrip.	UV-damaged DNA-binding protein homolog F7J7.40 - Arabidopsis thaliana gi 2911067 emb CAA17529.1 (AL021960) UV-damaged DNA-binding protein-like [Arabidopsis thaliana] gi 7268907 emb CAB79110.1 (AL161554) UV-damaged DNA-binding protein-like [Arabidopsis thaliana]		

Seq. No.	56435	Seq. ID	OJ000403_18.0419.C4
Gene No.	118081	Strand	+
Start	1	End	5079
Name	OJ000403_18.0419.C4.o2.gs	Method	GENSCAN
Start	1883	End	5079
GI	none	Score	.86
Exons	1883..1957, 2013..2072, 3199..3357, 3439..3603, 4393..4703, 4905..5079		

Seq. No.	56435	Seq. ID	OJ000403_18.0419.C4
Gene No.	118081	Strand	+
Start	1	End	5079
Name	OJ000403_18.0419.C4.o1.np	Method	AAT/NAP
Start	3443	End	4206
GI	7267302	Score	317
Exons	3443..3682, 3859..3912, 3958..4206		
GI Descrip.	(AL161503) UV-damaged DNA binding factor-like protein [Arabidopsis thaliana]		

Seq. No.	56435	Seq. ID	OJ000403_18.0419.C4
Gene No.	118082	Strand	+
Start	10429	End	11994
Name	OJ000403_18.0419.C4.o4.np	Method	AAT/NAP
Start	10429	End	11994
GI	7340909	Score	174
Exons	10429..10478, 11726..11994		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	56435	Seq. ID	OJ000403_18.0419.C4
Gene No.	118083	Strand	-
Start	1	End	1103
Name	OJ000403_18.0419.C4.o1.gp	Method	AAT/GAP
Start	1	End	245
GI	9088_1.R1084	Score	355
Exons	1..245		
GI Descrip.	'5882720/gb AAD55273.1 AC008263_4 1.0e-32 (AC008263) Similar to gb_D86180 phosphoribosylanthranilate transferase from Pisum sativum and contains 2 PF_00168 C2 (phospholipid binding) domains. ESTs gb_H76726, gb_T45544 and gb_N96377 come from this gene. [Arab'		

Seq. No.	56435	Seq. ID	OJ000403_18.0419.C4
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Gene No.	118083	Strand	-
Start	1	End	1103
Name	OJ000403_18.0419.C4.o1.gs	Method	GENSCAN
Start	59	End	1103
GI	none	Score	.82
Exons	59..248, 660..967, 1041..1103		

Seq. No.	56435	Seq. ID	OJ000403_18.0419.C4
Gene No.	118084	Strand	-
Start	4878	End	11839
Name	OJ000403_18.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	962	End	4048
GI	5753094	Score	105
Exons	962..1027, 963..1034, 3442..3564, 3471..3563, 3561..3692, 3562..3684, 3845..3901, 3855..3902, 3957..4040, 3962..4048		
GI Descrip.	2911067/emb_CAA17529_4.0e-67 (AL021960) UV-damaged DNA-binding protein- like [Arabidopsis thaliana]		

Seq. No.	56435	Seq. ID	OJ000403_18.0419.C4
Gene No.	118084	Strand	-
Start	4878	End	11839
Name	OJ000403_18.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	3442	End	4131
GI	none	Score	146
Exons	3442..3552, 3471..3551, 3473..3562, 3564..3680, 3565..3684, 3568..3681, 3855..3902, 3956..4066, 3960..4067, 4048..4131, 4053..4130		

Seq. No.	56435	Seq. ID	OJ000403_18.0419.C4
Gene No.	118084	Strand	-
Start	4878	End	11839
Name	OJ000403_18.0419.C4.o3.np	Method	AAT/NAP
Start	4878	End	8601
GI	6063557	Score	328
Exons	4878..5029, 8031..8206, 8426..8601		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	56435	Seq. ID	OJ000403_18.0419.C4
Gene No.	118084	Strand	-
Start	4878	End	11839
Name	OJ000403_18.0419.C4.o4.gs	Method	GENSCAN
Start	8385	End	11839
GI	none	Score	.45
Exons	8385..8683, 9989..10057, 10367..10491, 11775..11839		

Seq. No.	56436	Seq. ID	OJ000403_18.0419.C5
Gene No.	118085	Strand	+
Start	849	End	1396
Name	OJ000403_18.0419.C5.o1.gp	Method	AAT/GAP
Start	849	End	1396
GI	none	Score	776
Exons	849..1129, 1271..1396		

Seq. No.	56436	Seq. ID	OJ000403_18.0419.C5
Gene No.	118086	Strand	+
Start	1618	End	5012
Name	OJ000403_18.0419.C5.o2.np	Method	AAT/NAP

Start	1618	End	5009
GI	7487523	Score	747
Exons	1618..1878, 1969..2536, 2811..2989, 3253..3476, 4059..4362, 4612..5009		
GI Descrip.	hypothetical protein T29F13.12 - Arabidopsis thaliana gi 3132478 gb AAC16267.1 (AC003096) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56436	Seq. ID	OJ000403_18.0419.C5
Gene No.	118086	Strand	+
Start	1618	End	5012
Name	OJ000403_18.0419.C5.o2.gs	Method	GENSCAN
Start	1687	End	5012
GI	none	Score	.64
Exons	1687..2536, 2727..2989, 3253..3476, 4059..4389, 4608..5012		

Seq. No.	56436	Seq. ID	OJ000403_18.0419.C5
Gene No.	118086	Strand	+
Start	1618	End	5012
Name	OJ000403_18.0419.C5.o2.gp	Method	AAT/GAP
Start	2301	End	4440
GI	39840 1.R1084	Score	1817
Exons	2301..2536, 2805..2989, 3253..3476, 4059..4440		
GI Descrip.	'3132478 4.0e-36 (AC003096) bZIP-like protein [Arabidopsis thaliana]'		

Seq. No.	56436	Seq. ID	OJ000403_18.0419.C5
Gene No.	118087	Strand	-
Start	1	End	1617
Name	OJ000403_18.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	1617
GI	7340909	Score	120
Exons	1..384, 1543..1617		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	56436	Seq. ID	OJ000403_18.0419.C5
Gene No.	118087	Strand	-
Start	1	End	1617
Name	OJ000403_18.0419.C5.o1.gs	Method	GENSCAN
Start	220	End	1457
GI	none	Score	.79
Exons	220..384, 685..887, 892..1120, 1152..1457		

Seq. No.	56436	Seq. ID	OJ000403_18.0419.C5
Gene No.	118088	Strand	-
Start	4906	End	5327
Name	OJ000403_18.0419.C5.o3.gp	Method	AAT/GAP
Start	4906	End	5327
GI	uC-osrocyp017e12a1	Score	820
Exons	4906..5327		
GI Descrip.	'5640157/emb CAB51555.1 2.0e-14 (AJ242531) gibberellin response modulator [Triticum aestivum]'		

Seq. No.	56436	Seq. ID	OJ000403_18.0419.C5
Gene No.	118089	Strand	-
Start	7166	End	7363
Name	OJ000403_18.0419.C5.o2.tm	Method	TBLASTX:Maize

Start	2018	End	2393
GI	none	Score	119
Exons	2018..2086, 2057..2191, 2058..2207, 2081..2215, 2083..2214, 2104..2229, 2203..2340, 2212..2343, 2232..2345, 2268..2342, 2328..2393, 2350..2388		

Seq. No.	56436	Seq. ID	OJ000403_18.0419.C5
Gene No.	118089	Strand	-
Start	7166	End	7363
Name	OJ000403_18.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	2024	End	2475
GI	none	Score	60
Exons	2024..2152, 2031..2153, 2104..2256, 2148..2213, 2209..2253, 2254..2355, 2255..2344, 2262..2354, 2335..2475, 2346..2471		

Seq. No.	56436	Seq. ID	OJ000403_18.0419.C5
Gene No.	118089	Strand	-
Start	7166	End	7363
Name	OJ000403_18.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	4188	End	5181
GI	none	Score	147
Exons	4188..4391, 4188..4394, 4189..4392, 4602..4772, 4607..4771, 4710..4772, 4775..5011, 4782..5012, 4785..5012, 5007..5060, 5022..5060, 5031..5090, 5053..5091, 5062..5181, 5130..5153		

Seq. No.	56436	Seq. ID	OJ000403_18.0419.C5
Gene No.	118089	Strand	-
Start	7166	End	7363
Name	OJ000403_18.0419.C5.o3.gs	Method	GENSCAN
Start	7166	End	7363
GI	none	Score	.78
Exons	7166..7363		

Seq. No.	56437	Seq. ID	OJ000403_18.0419.C6
Gene No.	118090	Strand	+
Start	129	End	2652
Name	OJ000403_18.0419.C6.o1.gs	Method	GENSCAN
Start	129	End	2598
GI	none	Score	.78
Exons	129..313, 1390..1476, 1559..1634, 1740..1814, 1986..2039, 2349..2408, 2482..2598		

Seq. No.	56437	Seq. ID	OJ000403_18.0419.C6
Gene No.	118090	Strand	+
Start	129	End	2652
Name	OJ000403_18.0419.C6.o1.np	Method	AAT/NAP
Start	631	End	2652
GI	6634768	Score	468
Exons	631..777, 1390..1476, 1559..1634, 1740..1814, 2349..2408, 2482..2652		
GI Descrip.	(AC009917) Contains similarity to gb D21822 ORF from Lilium longiflorum. ESTs gb T03978, gb R89954, gb AI995107, gb T20998, gb R65384 come from this gene. [Arabidopsis thaliana]		

Seq. No.	56437	Seq. ID	OJ000403_18.0419.C6
Gene No.	118090	Strand	+
Start	129	End	2652

Name	OJ000403_18.0419.C6.ol.ts	Method	TBLASTX:Soybean
Start	674	End	1811
GI	none	Score	94
Exons	674..766, 674..778, 1379..1477, 1391..1480, 1553..1630, 1557..1637, 1558..1632, 1560..1634, 1737..1811		

Seq. No.	56437	Seq. ID	OJ000403_18.0419.C6
Gene No.	118090	Strand	+
Start	129	End	2652
Name	OJ000403_18.0419.C6.ol.tm	Method	TBLASTX:Maize
Start	1778	End	2600
GI	none	Score	69
Exons	1778..1819, 1779..1820, 1965..2039, 1969..2040, 1985..2041, 2344..2409, 2346..2411, 2348..2425, 2349..2411, 2473..2589, 2477..2599, 2479..2598, 2481..2600		

Seq. No.	56437	Seq. ID	OJ000403_18.0419.C6
Gene No.	118090	Strand	+
Start	129	End	2652
Name	OJ000403_18.0419.C6.ol.gp	Method	AAT/GAP
Start	2526	End	2598
GI	2310353	Score	123
Exons	2526..2598		
GI Descrip.	4432841/gb AAD20690 2.0e-23 (AC006283) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56438	Seq. ID	OJ000403_18.0419.C7
Gene No.	118091	Strand	+
Start	210	End	428
Name	OJ000403_18.0419.C7.ol.gs	Method	GENSCAN
Start	210	End	428
GI	none	Score	.75
Exons	210..428		

Seq. No.	56439	Seq. ID	OJ000403_18.0419.C9
Gene No.	118092	Strand	+
Start	403	End	811
Name	OJ000403_18.0419.C9.ol.np	Method	AAT/NAP
Start	403	End	811
GI	7339719	Score	88
Exons	403..469, 528..811		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	56440	Seq. ID	OJ000403_18.0419.C10
Gene No.	118093	Strand	-
Start	1	End	1335
Name	OJ000403_18.0419.C10.ol.np	Method	AAT/NAP
Start	1	End	766
GI	6358813	Score	609
Exons	1..508, 589..766		
GI Descrip.	(AC010675) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56440	Seq. ID	OJ000403_18.0419.C10
Gene No.	118093	Strand	-
Start	1	End	1335
Name	OJ000403_18.0419.C10.ol.gp	Method	AAT/GAP
Start	270	End	1335

GI 31525.1.R1084 Score 1104
 Exons 270..508, 589..750, 1161..1335
 GI Descrip. '576771/gb|U16256|OSU16256 0.0e+00 Oryza sativa cone SR1
 sucrose-regulated mRNA, 3''-end sequence'

Seq. No. 56440 Seq. ID OJ000403_18.0419.C10
 Gene No. 118094 Strand -
 Start 3194 End 3810
 Name OJ000403_18.0419.C10.o1.tm Method TBLASTX:Maize
 Start 62 End 754
 GI none Score 64
 Exons 62..163, 63..164, 67..165, 70..234, 147..218, 175..225,
 242..277, 318..509, 327..509, 335..514, 337..510, 585..752,
 590..754, 601..753

Seq. No. 56440 Seq. ID OJ000403_18.0419.C10
 Gene No. 118094 Strand -
 Start 3194 End 3810
 Name OJ000403_18.0419.C10.o2.tc Method TBLASTX:Cress
 Start 102 End 477
 GI none Score 86
 Exons 102..164, 106..222, 184..231, 327..476, 340..477

Seq. No. 56440 Seq. ID OJ000403_18.0419.C10
 Gene No. 118094 Strand -
 Start 3194 End 3810
 Name OJ000403_18.0419.C10.o1.tw Method TBLASTX:Wheat
 Start 245 End 688
 GI none Score 58
 Exons 245..280, 336..392, 336..392, 340..393, 381..509, 391..510,
 578..685, 585..686, 591..686, 592..687, 593..688

Seq. No. 56440 Seq. ID OJ000403_18.0419.C10
 Gene No. 118094 Strand -
 Start 3194 End 3810
 Name OJ000403_18.0419.C10.o2.tw Method TBLASTX:Wheat
 Start 2203 End 3535
 GI none Score 54
 Exons 2203..2241, 3341..3535, 3342..3524

Seq. No. 56440 Seq. ID OJ000403_18.0419.C10
 Gene No. 118094 Strand -
 Start 3194 End 3810
 Name OJ000403_18.0419.C10.o2.np Method AAT/NAP
 Start 3194 End 3810
 GI 7488096 Score 273
 Exons 3194..3529, 3786..3810
 GI Descrip. probable DNA-binding protein T15B16.12 - Arabidopsis thaliana
 gi|3859603|gb|AAC72869.1| (AF104919) contains similarity to wild
 oat DNA-binding protein ABF2 (GB:248431) [Arabidopsis thaliana]

Seq. No. 56440 Seq. ID OJ000403_18.0419.C10
 Gene No. 118094 Strand -
 Start 3194 End 3810
 Name OJ000403_18.0419.C10.o1.tc Method TBLASTX:Cress
 Start 3341 End 3529
 GI none Score 162

Exons 3341..3529, 3342..3524

Seq. No.	56440	Seq. ID	OJ000403_18.0419.C10
Gene No.	118094	Strand	-
Start	3194	End	3810
Name	OJ000403_18.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	3341	End	3529
GI	none	Score	162
Exons	3341..3529, 3342..3524		

Seq. No.	56440	Seq. ID	OJ000403_18.0419.C10
Gene No.	118094	Strand	-
Start	3194	End	3810
Name	OJ000403_18.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	3353	End	3523
GI	none	Score	122
Exons	3353..3523, 3354..3512		

Seq. No.	56441	Seq. ID	OJ000403_18.0419.C12
Gene No.	118095	Strand	+
Start	212	End	2306
Name	OJ000403_18.0419.C12.o1.gs	Method	GENSCAN
Start	212	End	2306
GI	none	Score	.73
Exons	212..328, 431..546, 929..1017, 2239..2306		

Seq. No.	56441	Seq. ID	OJ000403_18.0419.C12
Gene No.	118095	Strand	+
Start	212	End	2306
Name	OJ000403_18.0419.C12.o1.gp	Method	AAT/GAP
Start	1692	End	2184
GI	576771	Score	832
Exons	1692..1904, 1931..2184		
GI Descrip.	576771/gb U16256 OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3'-end sequence		

Seq. No.	56441	Seq. ID	OJ000403_18.0419.C12
Gene No.	118096	Strand	+
Start	3549	End	5032
Name	OJ000403_18.0419.C12.o1.np	Method	AAT/NAP
Start	3549	End	5032
GI	7140877	Score	160
Exons	3549..3763, 4934..5032		
GI Descrip.	(AF148669), maturase [Porteresia coarctata]		

Seq. No.	56441	Seq. ID	OJ000403_18.0419.C12
Gene No.	118097	Strand	+
Start	9477	End	10743
Name	OJ000403_18.0419.C12.o3.gs	Method	GENSCAN
Start	9477	End	10743
GI	none	Score	.48
Exons	9477..9517, 9610..9751, 10171..10743		

Seq. No.	56441	Seq. ID	OJ000403_18.0419.C12
Gene No.	118097	Strand	+
Start	9477	End	10743
Name	OJ000403_18.0419.C12.o3.np	Method	AAT/NAP

Start	9614	End	10722
GI	6815053	Score	808
Exons	9614..9760, 10260..10435, 10485..10722		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	56441	Seq. ID	OJ000403_18.0419.C12
Gene No.	118098	Strand	-
Start	4117	End	7703
Name	OJ000403_18.0419.C12.o2.gs	Method	GENSCAN
Start	4117	End	7703
GI	none	Score	.45
Exons	4117..4751, 5971..6063, 6246..6443, 6563..6722, 6824..6942, 7472..7703		

Seq. No.	56441	Seq. ID	OJ000403_18.0419.C12
Gene No.	118098	Strand	-
Start	4117	End	7703
Name	OJ000403_18.0419.C12.o2.np	Method	AAT/NAP
Start	5061	End	6718
GI	6714305	Score	219
Exons	5061..5084, 6253..6478, 6593..6718		
GI Descrip.	(AC013354) F15H18.4 [Arabidopsis thaliana]		

Seq. No.	56441	Seq. ID	OJ000403_18.0419.C12
Gene No.	118099	Strand	-
Start	15582	End	16697
Name	OJ000403_18.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	6251	End	6720
GI	none	Score	128
Exons	6251..6433, 6265..6432, 6606..6719, 6607..6720		

Seq. No.	56441	Seq. ID	OJ000403_18.0419.C12
Gene No.	118099	Strand	-
Start	15582	End	16697
Name	OJ000403_18.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	6251	End	6721
GI	none	Score	161
Exons	6251..6445, 6253..6444, 6600..6719, 6601..6720, 6605..6721		

Seq. No.	56441	Seq. ID	OJ000403_18.0419.C12
Gene No.	118099	Strand	-
Start	15582	End	16697
Name	OJ000403_18.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	6253	End	6723
GI	none	Score	174
Exons	6253..6444, 6254..6445, 6262..6447, 6273..6446, 6599..6721, 6600..6722, 6600..6722, 6601..6723		

Seq. No.	56441	Seq. ID	OJ000403_18.0419.C12
Gene No.	118099	Strand	-
Start	15582	End	16697
Name	OJ000403_18.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	6254	End	6659
GI	none	Score	109
Exons	6254..6382, 6265..6450, 6284..6379, 6606..6659		

Seq. No.	56441	Seq. ID	OJ000403_18.0419.C12
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Gene No.	118099	Strand	-
Start	15582	End	16697
Name	OJ000403_18.0419.C12.o4.np	Method	AAT/NAP
Start	15182	End	15983
GI	1399347	Score	77
Exons	15182..15273, 15759..15983		
GI Descrip.	(U43373) DNA binding protein [Gallus gallus]		

Seq. No.	56441	Seq. ID	OJ000403_18.0419.C12
Gene No.	118099	Strand	-
Start	15582	End	16697
Name	OJ000403_18.0419.C12.o4.gs	Method	GENSCAN
Start	15582	End	16697
GI	none	Score	.97
Exons	15582..16697		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118100	Strand	+
Start	7002	End	8378
Name	OJ000403_18.0419.C13.o2.np	Method	AAT/NAP
Start	7002	End	8258
GI	7340860	Score	130
Exons	7002..7167, 7849..7991, 8133..8258		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118100	Strand	+
Start	7002	End	8378
Name	OJ000403_18.0419.C13.o3.np	Method	AAT/NAP
Start	7849	End	8378
GI	5852172	Score	93
Exons	7849..7888, 8175..8196, 8295..8378		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118101	Strand	-
Start	928	End	4750
Name	OJ000403_18.0419.C13.o1.gp	Method	AAT/GAP
Start	478	End	2845
GI	2392_1.R1084	Score	1540
Exons	478..1059, 1605..1739, 2658..2706, 2782..2845		
GI Descrip.	'1718097/sp P54641 VATX DICDI 3.0e-28 VACUOLAR ATP SYNTHASE SUBUNIT AC39 (V-ATPASE AC39 SUBUNIT) (41 KD ACCESSORY PROTEIN) (DVA41) >gi_626048_pir_A55016 lysosomal membrane protein DVA41 - slime mold (Dictyostelium discoideum) >gi_532733 (U13150) vacuolar ATPase subunit DVA41 [Dictyostelium discoideum]'		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118101	Strand	-
Start	928	End	4750
Name	OJ000403_18.0419.C13.o1.gs	Method	GENSCAN
Start	928	End	4631
GI	none	Score	.83
Exons	928..1059, 1605..1739, 2658..2706, 2782..2841, 2962..3047, 3130..3210, 3313..3415, 3496..3603, 3718..3838, 4451..4631		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118101	Strand	-
Start	928	End	4750
Name	OJ000403_18.0419.C13.o1.np	Method	AAT/NAP
Start	934	End	4636
GI	1718097	Score	818
Exons	934..1059, 1605..1739, 2658..2706, 2782..2841, 2959..3047, 3130..3210, 3313..3415, 3496..3603, 3718..3838, 4451..4636		
GI Descrip.	VACUOLAR ATP SYNTHASE SUBUNIT AC39 (V-ATPASE AC39 SUBUNIT) (41 KD ACCESSORY PROTEIN) (DVA41) gi 626048 pir A55016 lysosomal membrane protein DVA41 - slime mold (Dictyostelium discoideum) gi 532733 gb AAA64993.1 (U13150) vacuolar ATPase subunit DVA41 [Dictyostelium discoideum]		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118101	Strand	-
Start	928	End	4750
Name	OJ000403_18.0419.C13.o2.gp	Method	AAT/GAP
Start	3321	End	4750
GI	7277_1.R1084	Score	1023
Exons	3321..3415, 3496..3603, 3718..3838, 4451..4750		
GI Descrip.	'5852170/emb AL117265.1 OST17804 3.0e-94 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118102	Strand	-
Start	7311	End	16819
Name	OJ000403_18.0419.C13.o4.np	Method	AAT/NAP
Start	7311	End	16795
GI	5882720	Score	2886
Exons	7311..7347, 13676..16795		
GI Descrip.	(AC008263) Similar to gb D86180 phosphoribosylanthranilate transferase from Pisum sativum and contains 2 PF 00168 C2 (phospholipid binding) domains. ESTs gb H76726, gb T45544 and gb N96377 come from this gene. [Arab....		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118102	Strand	-
Start	7311	End	16819
Name	OJ000403_18.0419.C13.o3.gs	Method	GENSCAN
Start	13576	End	16819
GI	none	Score	.72
Exons	13576..14043, 14054..16333, 16364..16819		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118103	Strand	-
Start	18044	End	19469
Name	OJ000403_18.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	680	End	4651
GI	none	Score	37
Exons	680..766, 686..772, 700..774, 835..861, 859..906, 866..901, 868..906, 869..943, 919..1062, 920..1072, 942..1082, 1584..1739, 1606..1743, 1606..1740, 1607..1741, 2652..2705, 2654..2707, 2655..2705, 2656..2706, 2770..2844, 2778..2843, 2779..2844, 2781..2861, 2947..3048, 2964..3050, 3113..3211, 3130..3213, 3135..3212, 3311..3418, 3311..3415, 3312..3416, 3313..3420, 3313..3420, 3484..3600, 3498..3602, 3498..3602, 3666..3848,		

3705..3839, 3718..3840, 4437..4631, 4453..4638, 4555..4650,
4577..4651

Seq. No. 56442 Seq. ID OJ000403_18.0419.C13
Gene No. 118103 Strand -
Start 18044 End 19469
Name OJ000403_18.0419.C13.o1.ts Method TBLASTX:Soybean
Start 928 End 4640
GI none Score 110
Exons 928..1062, 931..1062, 935..1072, 1584..1739, 1589..1750,
1606..1740, 2642..2701, 2652..2705, 2655..2705, 2779..2844,
2779..2844, 2781..2861, 2962..3048, 2964..3050, 2965..3051,
3084..3215, 3121..3216, 3129..3212, 3130..3213, 3134..3220,
3300..3413, 3311..3418, 3312..3413, 3313..3420, 3319..3420,
3496..3606, 3498..3602, 3666..3848, 3715..3840, 4437..4640,
4453..4632

Seq. No. 56442 Seq. ID OJ000403_18.0419.C13
Gene No. 118103 Strand -
Start 18044 End 19469
Name OJ000403_18.0419.C13.o2.tc Method TBLASTX:Cress
Start 928 End 3606
GI none Score 168
Exons 928..1062, 929..1072, 1584..1739, 1606..1743, 1606..1779,
2652..2705, 2655..2705, 2781..2861, 2782..2844, 2962..3048,
2964..3050, 2973..3050, 3121..3216, 3129..3212, 3130..3213,
3134..3223, 3134..3223, 3311..3418, 3313..3420, 3325..3420,
3496..3606, 3498..3605

Seq. No. 56442 Seq. ID OJ000403_18.0419.C13
Gene No. 118103 Strand -
Start 18044 End 19469
Name OJ000403_18.0419.C13.o3.tw Method TBLASTX:Wheat
Start 1607 End 3039
GI none Score 168
Exons 1607..1741, 1608..1739, 1609..1743, 2651..2698, 2652..2699,
2655..2705, 2656..2706, 2657..2707, 2780..2842, 2780..2842,
2781..2861, 2782..2844, 2946..3038, 2962..3039, 2962..3036,
2964..3038

Seq. No. 56442 Seq. ID OJ000403_18.0419.C13
Gene No. 118103 Strand -
Start 18044 End 19469
Name OJ000403_18.0419.C13.o2.tw Method TBLASTX:Wheat
Start 3585 End 4644
GI none Score 136
Exons 3585..3602, 3714..3839, 3715..3840, 3717..3848, 4437..4640,
4453..4644, 4555..4641

Seq. No. 56442 Seq. ID OJ000403_18.0419.C13
Gene No. 118103 Strand -
Start 18044 End 19469
Name OJ000403_18.0419.C13.o6.tc Method TBLASTX:Cress
Start 3715 End 4634
GI none Score 160
Exons 3715..3840, 3715..3840, 3720..3848, 4437..4634, 4453..4632

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118103	Strand	-
Start	18044	End	19469
Name	OJ000403_18.0419.C13.o4.tm	Method	TBLASTX:Maize
Start	13564	End	15575
GI	none	Score	147
Exons	13564..13890, 13574..13846, 13768..13890, 15435..15575		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118103	Strand	-
Start	18044	End	19469
Name	OJ000403_18.0419.C13.o3.tc	Method	TBLASTX:Cress
Start	13576	End	13887
GI	none	Score	161
Exons	13576..13887, 13583..13834		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118103	Strand	-
Start	18044	End	19469
Name	OJ000403_18.0419.C13.o4.ts	Method	TBLASTX:Soybean
Start	13576	End	13884
GI	none	Score	152
Exons	13576..13884, 13580..13843		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118103	Strand	-
Start	18044	End	19469
Name	OJ000403_18.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	13891	End	14684
GI	none	Score	90
Exons	13891..14055, 13958..14053, 14108..14563, 14109..14618, 14576..14680, 14577..14684		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118103	Strand	-
Start	18044	End	19469
Name	OJ000403_18.0419.C13.o3.tm	Method	TBLASTX:Maize
Start	13894	End	14521
GI	none	Score	119
Exons	13894..14055, 13900..14055, 13958..14095, 14108..14269, 14112..14276, 14336..14377, 14337..14369, 14411..14521, 14412..14519		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118103	Strand	-
Start	18044	End	19469
Name	OJ000403_18.0419.C13.o3.ts	Method	TBLASTX:Soybean
Start	13900	End	14554
GI	none	Score	43
Exons	13900..14052, 13961..14050, 14108..14269, 14109..14264, 14333..14377, 14411..14554, 14415..14543		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118103	Strand	-
Start	18044	End	19469
Name	OJ000403_18.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	14342	End	16687

GI	none	Score	142
Exons	14342..14377, 14411..14554, 14412..14543, 14595..14744, 14597..14746, 16562..16687		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118103	Strand	-
Start	18044	End	19469
Name	OJ000403_18.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	14595	End	16702
GI	none	Score	189
Exons	14595..14750, 14597..14752, 14756..14938, 14826..14897, 16562..16702		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118103	Strand	-
Start	18044	End	19469
Name	OJ000403_18.0419.C13.o2.ts	Method	TBLASTX:Soybean
Start	14633	End	16702
GI	none	Score	123
Exons	14633..14752, 14640..14753, 14756..14938, 14823..14894, 15023..15172, 15287..15370, 15288..15365, 15347..15454, 15348..15455, 16574..16702		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118103	Strand	-
Start	18044	End	19469
Name	OJ000403_18.0419.C13.o5.tc	Method	TBLASTX:Cress
Start	14685	End	16696
GI	none	Score	87
Exons	14685..14777, 14687..14938, 14826..14897, 16562..16696		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118103	Strand	-
Start	18044	End	19469
Name	OJ000403_18.0419.C13.o4.tc	Method	TBLASTX:Cress
Start	15284	End	15623
GI	none	Score	138
Exons	15284..15466, 15285..15452, 15473..15622, 15474..15623		

Seq. No.	56442	Seq. ID	OJ000403_18.0419.C13
Gene No.	118103	Strand	-
Start	18044	End	19469
Name	OJ000403_18.0419.C13.o5.np	Method	AAT/NAP
Start	18044	End	19469
GI	5852084	Score	89
Exons	18044..18150, 19243..19272, 19442..19469		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	56443	Seq. ID	OJ000403_18.0419.C14
Gene No.	118104	Strand	-
Start	1	End	3586
Name	OJ000403_18.0419.C14.o2.np	Method	AAT/NAP
Start	1	End	3456
GI	6815109	Score	180
Exons	1..44, 2003..2201, 3426..3456		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	56443	Seq. ID	OJ000403_18.0419.C14
Gene No.	118104	Strand	-
Start	1	End	3586
Name	OJ000403_18.0419.C14.ol.gs	Method	GENSCAN
Start	297	End	3586
GI	none	Score	.73
Exons	297..338, 1551..1757, 1911..2066, 2391..2473, 3451..3586		

Seq. No.	56443	Seq. ID	OJ000403_18.0419.C14
Gene No.	118104	Strand	-
Start	1	End	3586
Name	OJ000403_18.0419.C14.ol.np	Method	AAT/NAP
Start	639	End	762
GI	5852084	Score	72
Exons	639..762		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	56444	Seq. ID	OJ000403_18.0419.C15
Gene No.	118105	Strand	+
Start	1	End	2002
Name	OJ000403_18.0419.C15.ol.np	Method	AAT/NAP
Start	1	End	2002
GI	6634768	Score	568
Exons	1..179, 283..365, 463..604, 1107..1177, 1259..2002		
GI Descrip.	(AC009917) Contains similarity to gb D21822 ORF from Lilium longiflorum. ESTs gb T03978, gb R89954, gb AI995107, gb T20998, gb R65384 come from this gene. [Arabidopsis thaliana]		

Seq. No.	56444	Seq. ID	OJ000403_18.0419.C15
Gene No.	118105	Strand	+
Start	1	End	2002
Name	OJ000403_18.0419.C15.ol.gs	Method	GENSCAN
Start	57	End	1853
GI	none	Score	.75
Exons	57..179, 283..365, 463..604, 854..883, 1107..1177, 1259..1853		

Seq. No.	56444	Seq. ID	OJ000403_18.0419.C15
Gene No.	118106	Strand	-
Start	1688	End	2361
Name	OJ000403_18.0419.C15.ol.tc	Method	TBLASTX:Cress
Start	56	End	601
GI	none	Score	140
Exons	56..181, 57..179, 280..369, 281..346, 283..351, 449..601, 449..598, 525..599		

Seq. No.	56444	Seq. ID	OJ000403_18.0419.C15
Gene No.	118106	Strand	-
Start	1688	End	2361
Name	OJ000403_18.0419.C15.ol.ts	Method	TBLASTX:Soybean
Start	56	End	1179
GI	none	Score	143
Exons	56..178, 57..179, 280..366, 286..375, 458..481, 536..565, 560..607, 1104..1169, 1105..1179		

Seq. No.	56444	Seq. ID	OJ000403_18.0419.C15
Gene No.	118106	Strand	-
Start	1688	End	2361

Name	OJ000403_18.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	56	End	509
GI	none	Score	173
Exons	56..181, 57..179, 86..181, 278..373, 281..367, 283..375, 458..481, 462..509		

Seq. No.	56444	Seq. ID	OJ000403_18.0419.C15
Gene No.	118106	Strand	-
Start	1688	End	2361
Name	OJ000403_18.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	821	End	1660
GI	none	Score	62
Exons	821..883, 1104..1175, 1105..1173, 1254..1331, 1259..1330, 1319..1351, 1333..1398, 1334..1399, 1371..1403, 1380..1562, 1401..1583, 1430..1660		

Seq. No.	56444	Seq. ID	OJ000403_18.0419.C15
Gene No.	118106	Strand	-
Start	1688	End	2361
Name	OJ000403_18.0419.C15.o1.gp	Method	AAT/GAP
Start	1688	End	2361
GI	47673_1.R1084	Score	1296
Exons	1688..2361		
GI Descrip.	'5852170/emb AL117265.1 OST17804 3.0e-94 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		

Seq. No.	56445	Seq. ID	OJ000403_18.0419.C16
Gene No.	118107	Strand	+
Start	42	End	15760
Name	OJ000403_18.0419.C16.o1.np	Method	AAT/NAP
Start	42	End	4712
GI	7486337	Score	254
Exons	42..74, 2444..2997, 4362..4712		
GI Descrip.	hypothetical protein F28P10.190 - Arabidopsis thaliana gi 4678310 emb CAB41101.1 (AL049655) putative protein [Arabidopsis thaliana]		

Seq. No.	56445	Seq. ID	OJ000403_18.0419.C16
Gene No.	118107	Strand	+
Start	42	End	15760
Name	OJ000403_18.0419.C16.o2.np	Method	AAT/NAP
Start	2445	End	4904
GI	7340692	Score	271
Exons	2445..2997, 4362..4904		
GI Descrip.	(AL162508) putative protein [Arabidopsis thaliana]		

Seq. No.	56445	Seq. ID	OJ000403_18.0419.C16
Gene No.	118107	Strand	+
Start	42	End	15760
Name	OJ000403_18.0419.C16.o1.gs	Method	GENSCAN
Start	2622	End	13779
GI	none	Score	.57
Exons	2622..2818, 2913..2997, 4362..4682, 4697..4843, 4918..5106, 5230..5378, 5506..5622, 6729..7012, 7933..8188, 8557..8828, 9466..9509, 9806..9973, 10218..10247, 10470..10540, 12446..12551, 13171..13779		

Seq. No.	56445	Seq. ID	OJ000403_18.0419.C16
Gene No.	118107	Strand	+
Start	42	End	15760
Name	OJ000403_18.0419.C16.o5.np	Method	AAT/NAP
Start	4445	End	10540
GI	6634768	Score	251
Exons	4445..4550, 9638..9732, 9832..9973, 10470..10540		
GI Descrip.	(AC009917) Contains similarity to gb D21822 ORF from <i>Lilium longiflorum</i> . ESTs gb T03978, gb R89954, gb AI995107, gb T20998, gb R65384 come from this gene. [<i>Arabidopsis thaliana</i>]		

Seq. No.	56445	Seq. ID	OJ000403_18.0419.C16
Gene No.	118107	Strand	+
Start	42	End	15760
Name	OJ000403_18.0419.C16.o3.np	Method	AAT/NAP
Start	5020	End	7961
GI	4539658	Score	264
Exons	5020..5151, 5192..5414, 7914..7961		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [<i>Sorghum bicolor</i>]		

Seq. No.	56445	Seq. ID	OJ000403_18.0419.C16
Gene No.	118107	Strand	+
Start	42	End	15760
Name	OJ000403_18.0419.C16.o6.np	Method	AAT/NAP
Start	13162	End	15760
GI	7340692	Score	392
Exons	13162..13780, 15217..15760		
GI Descrip.	(AL162508) putative protein [<i>Arabidopsis thaliana</i>]		

Seq. No.	56445	Seq. ID	OJ000403_18.0419.C16
Gene No.	118107	Strand	+
Start	42	End	15760
Name	OJ000403_18.0419.C16.o2.gs	Method	GENSCAN
Start	15268	End	15756
GI	none	Score	.8
Exons	15268..15396, 15406..15756		

Seq. No.	56445	Seq. ID	OJ000403_18.0419.C16
Gene No.	118108	Strand	-
Start	6738	End	12095
Name	OJ000403_18.0419.C16.o4.np	Method	AAT/NAP
Start	6738	End	12095
GI	6063554	Score	198
Exons	6738..6913, 8199..8530, 8668..8877, 12006..12095		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [<i>Oryza sativa</i>]		

Seq. No.	56445	Seq. ID	OJ000403_18.0419.C16
Gene No.	118108	Strand	-
Start	6738	End	12095
Name	OJ000403_18.0419.C16.o1.gp	Method	AAT/GAP
Start	6984	End	7373
GI	2427387	Score	481
Exons	6984..7373		
GI Descrip.	5852170/emb AL117265.1 OST17804 3.0e-94 <i>Oryza sativa</i>		

indica (GLA4) genomic DNA, chromosome 4, BAC clone: t17804

Seq. No.	56445	Seq. ID	OJ000403_18.0419.C16
Gene No.	118109	Strand	-
Start	14293	End	14349
Name	OJ000403_18.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	2453	End	13528
GI	none	Score	148
Exons	2453..2566, 2458..2562, 2474..2566, 2616..2699, 2616..2708, 2618..2710, 2740..2778, 2742..2777, 13160..13324, 13207..13323, 13365..13457, 13365..13463, 13388..13465, 13487..13528, 13492..13527		

Seq. No.	56445	Seq. ID	OJ000403_18.0419.C16
Gene No.	118109	Strand	-
Start	14293	End	14349
Name	OJ000403_18.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	4929	End	5704
GI	none	Score	99
Exons	4929..5051, 4930..5058, 4943..5059, 5041..5148, 5047..5148, 5051..5155, 5417..5536, 5429..5536, 5538..5588, 5541..5585, 5663..5704		

Seq. No.	56445	Seq. ID	OJ000403_18.0419.C16
Gene No.	118109	Strand	-
Start	14293	End	14349
Name	OJ000403_18.0419.C16.o2.gp	Method	AAT/GAP
Start	14293	End	14349
GI	3759960	Score	54
Exons	14293..14349		

Seq. No.	56446	Seq. ID	OJ000403_18.0419.C17
Gene No.	118110	Strand	-
Start	1	End	9282
Name	OJ000403_18.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	2838
GI	6634768	Score	240
Exons	1..21, 1983..2045, 2551..2692, 2796..2838		
GI Descrip.	(AC009917) Contains similarity to gb D21822 ORF from Lilium longiflorum. ESTs gb T03978, gb R89954, gb AI995107, gb T20998, gb R65384 come from this gene. [Arabidopsis thaliana]		

Seq. No.	56446	Seq. ID	OJ000403_18.0419.C17
Gene No.	118110	Strand	-
Start	1	End	9282
Name	OJ000403_18.0419.C17.o2.np	Method	AAT/NAP
Start	1202	End	9282
GI	7486337	Score	211
Exons	1202..1224, 3752..3988, 5694..6098, 6193..6330, 9258..9282		
GI Descrip.	hypothetical protein F28P10.190 - Arabidopsis thaliana gi 4678310 emb CAB41101.1 (AL049655) putative protein [Arabidopsis thaliana]		

Seq. No.	56446	Seq. ID	OJ000403_18.0419.C17
Gene No.	118110	Strand	-
Start	1	End	9282
Name	OJ000403_18.0419.C17.o1.gs	Method	GENSCAN

Start	1232	End	6453
GI	none	Score	.47
Exons	1232..1278, 1967..2045, 2272..2301, 2551..2692, 3429..3959, 6023..6292, 6329..6453		

Seq. No.	56446	Seq. ID	OJ000403_18.0419.C17
Gene No.	118110	Strand	-
Start	1	End	9282
Name	OJ000403_18.0419.C17.o3.ts	Method	TBLASTX:Soybean
Start	3577	End	5759
GI	none	Score	61
Exons	3577..3702, 3776..3988, 5664..5759		

Seq. No.	56446	Seq. ID	OJ000403_18.0419.C17
Gene No.	118110	Strand	-
Start	1	End	9282
Name	OJ000403_18.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	3788	End	6072
GI	none	Score	60
Exons	3788..3817, 3815..3937, 5697..5801, 5830..6072, 5951..6049		

Seq. No.	56446	Seq. ID	OJ000403_18.0419.C17
Gene No.	118110	Strand	-
Start	1	End	9282
Name	OJ000403_18.0419.C17.o1.gp	Method	AAT/GAP
Start	6665	End	6779
GI	47673_1.R1084	Score	163
Exons	6665..6779		
GI Descrip.	'5852170/emb AL117265.1 OST17804 3.0e-94 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl17804'		

Seq. No.	56446	Seq. ID	OJ000403_18.0419.C17
Gene No.	118110	Strand	-
Start	1	End	9282
Name	OJ000403_18.0419.C17.o3.np	Method	AAT/NAP
Start	6857	End	8902
GI	2347180	Score	856
Exons	6857..7369, 7913..8612, 8652..8902		
GI Descrip.	(U80780) putative histone deacetylase [Mus musculus]		

Seq. No.	56446	Seq. ID	OJ000403_18.0419.C17
Gene No.	118110	Strand	-
Start	1	End	9282
Name	OJ000403_18.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	7913	End	8890
GI	none	Score	36
Exons	7913..8209, 7920..8015, 8076..8183, 8216..8257, 8249..8575, 8376..8522, 8660..8890		

Seq. No.	56446	Seq. ID	OJ000403_18.0419.C17
Gene No.	118110	Strand	-
Start	1	End	9282
Name	OJ000403_18.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	7913	End	8200
GI	none	Score	42
Exons	7913..8200, 7920..8015, 8076..8183		

Seq. No.	56446	Seq. ID	OJ000403_18.0419.C17
Gene No.	118110	Strand	-
Start	1	End	9282
Name	OJ000403_18.0419.C17.o2.ts	Method	TBLASTX:Soybean
Start	7919	End	8098
GI	none	Score	204
Exons	7919..8098		

Seq. No.	56446	Seq. ID	OJ000403_18.0419.C17
Gene No.	118110	Strand	-
Start	1	End	9282
Name	OJ000403_18.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	7976	End	8884
GI	none	Score	57
Exons	7976..8203, 8210..8608, 8217..8288, 8276..8308, 8376..8522, 8660..8884		

Seq. No.	56446	Seq. ID	OJ000403_18.0419.C17
Gene No.	118110	Strand	-
Start	1	End	9282
Name	OJ000403_18.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	8099	End	8902
GI	none	Score	100
Exons	8099..8209, 8216..8251, 8264..8575, 8376..8564, 8660..8902		

Seq. No.	56447	Seq. ID	OJ000403_18.0419.C18
Gene No.	118111	Strand	+
Start	455	End	634
Name	OJ000403_18.0419.C18.o1.gs	Method	GENSCAN
Start	455	End	634
GI	none	Score	.9
Exons	455..634		

Seq. No.	56447	Seq. ID	OJ000403_18.0419.C18
Gene No.	118112	Strand	-
Start	2036	End	2174
Name	OJ000403_18.0419.C18.o2.gs	Method	GENSCAN
Start	2036	End	2174
GI	none	Score	.85
Exons	2036..2113, 2118..2174		

Seq. No.	56448	Seq. ID	OJ000403_18.0419.C19
Gene No.	118113	Strand	+
Start	1	End	2188
Name	OJ000403_18.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	2188
GI	7340691	Score	395
Exons	1..206, 1661..2188		
GI Descrip.	(AL162508) putative protein [Arabidopsis thaliana]		

Seq. No.	56448	Seq. ID	OJ000403_18.0419.C19
Gene No.	118113	Strand	+
Start	1	End	2188
Name	OJ000403_18.0419.C19.o1.gs	Method	GENSCAN
Start	75	End	2188
GI	none	Score	.99
Exons	75..206, 1661..2188		

Seq. No.	56448	Seq. ID	OJ000403_18.0419.C19
Gene No.	118114	Strand	+
Start	4514	End	4594
Name	OJ000403_18.0419.C19.ol.tm	Method	TBLASTX:Maize
Start	93	End	2191
GI	none	Score	113
Exons	93..218, 1658..1873, 1919..2074, 2087..2191		

Seq. No.	56448	Seq. ID	OJ000403_18.0419.C19
Gene No.	118114	Strand	+
Start	4514	End	4594
Name	OJ000403_18.0419.C19.ol.ts	Method	TBLASTX:Soybean
Start	141	End	2062
GI	none	Score	68
Exons	141..209, 1661..1873, 1910..2062, 1969..2061		

Seq. No.	56448	Seq. ID	OJ000403_18.0419.C19
Gene No.	118114	Strand	+
Start	4514	End	4594
Name	OJ000403_18.0419.C19.ol.gp	Method	AAT/GAP
Start	4514	End	4594
GI	none	Score	158
Exons	4514..4594		

Seq. No.	56449	Seq. ID	OJ000403_14.0419.C3
Gene No.	118115	Strand	+
Start	1	End	7521
Name	OJ000403_14.0419.C3.o5.np	Method	AAT/NAP
Start	1	End	7521
GI	6016874	Score	83
Exons	1..26, 6588..6700, 7298..7521		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	56449	Seq. ID	OJ000403_14.0419.C3
Gene No.	118115	Strand	+
Start	1	End	7521
Name	OJ000403_14.0419.C3.o3.np	Method	AAT/NAP
Start	544	End	2606
GI	6721561	Score	87
Exons	544..630, 2589..2606		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1 (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56449	Seq. ID	OJ000403_14.0419.C3
Gene No.	118116	Strand	-
Start	239	End	334
Name	OJ000403_14.0419.C3.ol.np	Method	AAT/NAP
Start	239	End	334
GI	7248392	Score	85
Exons	239..334		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	56449	Seq. ID	OJ000403_14.0419.C3
Gene No.	118117	Strand	-
Start	422	End	6156
Name	OJ000403_14.0419.C3.o2.np	Method	AAT/NAP
Start	422	End	4472
GI	4680183	Score	128
Exons	422..511, 4441..4472		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	56449	Seq. ID	OJ000403_14.0419.C3
Gene No.	118117	Strand	-
Start	422	End	6156
Name	OJ000403_14.0419.C3.o1.gs	Method	GENSCAN
Start	466	End	6156
GI	none	Score	.66
Exons	466..592, 1445..2034, 2310..2459, 2465..2970, 5836..6156		

Seq. No.	56449	Seq. ID	OJ000403_14.0419.C3
Gene No.	118117	Strand	-
Start	422	End	6156
Name	OJ000403_14.0419.C3.o4.np	Method	AAT/NAP
Start	1404	End	2018
GI	7489681	Score	257
Exons	1404..2018		
GI Descrip.	probable cyst nematode resistance gene - wheat (fragment) gi 2967837 gb AAC05834.1 (AF052641) cyst nematode resistance gene candidate [Triticum aestivum]		

Seq. No.	56449	Seq. ID	OJ000403_14.0419.C3
Gene No.	118118	Strand	-
Start	6401	End	9866
Name	OJ000403_14.0419.C3.o1.gp	Method	AAT/GAP
Start	6401	End	7037
GI	58108_1.R1084	Score	1189
Exons	6401..7037		
GI Descrip.	'6016845/dbj AF000570.1 AF000570.1.0e-17 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	56449	Seq. ID	OJ000403_14.0419.C3
Gene No.	118118	Strand	-
Start	6401	End	9866
Name	OJ000403_14.0419.C3.o2.gs	Method	GENSCAN
Start	6611	End	9866
GI	none	Score	.58
Exons	6611..6802, 7135..7195, 7405..7511, 8647..8677, 9676..9866		

Seq. No.	56449	Seq. ID	OJ000403_14.0419.C3
Gene No.	118118	Strand	-
Start	6401	End	9866
Name	OJ000403_14.0419.C3.o2.gp	Method	AAT/GAP
Start	6974	End	7671
GI	none	Score	1190
Exons	6974..7671		

Seq. No.	56450	Seq. ID	OJ000403_14.0419.C4
Gene No.	118119	Strand	+

Start	477	End	1719
Name	OJ000403_14.0419.C4.o1.gs	Method	GENSCAN
Start	477	End	924
GI	none	Score	.71
Exons	477..605, 841..924		

Seq. No.	56450	Seq. ID	OJ000403_14.0419.C4
Gene No.	118119	Strand	+
Start	477	End	1719
Name	OJ000403_14.0419.C4.o1.np	Method	AAT/NAP
Start	477	End	1719
GI	4680183	Score	233
Exons	477..781, 1647..1719		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	56450	Seq. ID	OJ000403_14.0419.C4
Gene No.	118119	Strand	+
Start	477	End	1719
Name	OJ000403_14.0419.C4.o2.np	Method	AAT/NAP
Start	830	End	988
GI	5852172	Score	74
Exons	830..988		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	56450	Seq. ID	OJ000403_14.0419.C4
Gene No.	118120	Strand	-
Start	1228	End	1688
Name	OJ000403_14.0419.C4.o2.gs	Method	GENSCAN
Start	1228	End	1688
GI	none	Score	.68
Exons	1228..1350, 1593..1688		

Seq. No.	56451	Seq. ID	OJ000403_14.0419.C5
Gene No.	118121	Strand	+
Start	1	End	1734
Name	OJ000403_14.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	1613
GI	7485939	Score	433
Exons	1..41, 510..655, 871..1014, 1162..1290, 1401..1613		
GI Descrip.	hypothetical protein F21E10.7 - Arabidopsis thaliana gi 3047080 gb AAC13593.1 (AF058914) contains similarity to Arabidopsis thaliana DNA-damage-repair/tolerance resistance protein DRT111 (SW:P42698)		

Seq. No.	56451	Seq. ID	OJ000403_14.0419.C5
Gene No.	118121	Strand	+
Start	1	End	1734
Name	OJ000403_14.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	488	End	673
GI	none	Score	257
Exons	488..673, 500..670		

Seq. No.	56451	Seq. ID	OJ000403_14.0419.C5
Gene No.	118121	Strand	+
Start	1	End	1734
Name	OJ000403_14.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	497	End	1014

GI none Score 217
Exons 497..655, 499..588, 509..655, 843..1007, 844..1014, 849..1013

Seq. No. 56451 Seq. ID OJ000403_14.0419.C5
Gene No. 118121 Strand +
Start 1 End 1734
Name OJ000403_14.0419.C5.o1.tc Method TBLASTX:Cress
Start 499 End 1014
GI none Score 214
Exons 499..588, 500..658, 544..564, 552..656, 868..1014, 870..998

Seq. No. 56451 Seq. ID OJ000403_14.0419.C5
Gene No. 118121 Strand +
Start 1 End 1734
Name OJ000403_14.0419.C5.o1.gs Method GENSCAN
Start 501 End 1532
GI none Score .75
Exons 501..655, 1162..1316, 1397..1532

Seq. No. 56451 Seq. ID OJ000403_14.0419.C5
Gene No. 118121 Strand +
Start 1 End 1734
Name OJ000403_14.0419.C5.o2.tm Method TBLASTX:Maize
Start 888 End 1015
GI none Score 111
Exons 888..1013, 888..1013, 892..1014, 925..1014, 926..1015

Seq. No. 56451 Seq. ID OJ000403_14.0419.C5
Gene No. 118121 Strand +
Start 1 End 1734
Name OJ000403_14.0419.C5.o1.gp Method AAT/GAP
Start 1392 End 1734
GI none Score 253
Exons 1392..1532, 1663..1734

Seq. No. 56452 Seq. ID OJ000403_14.0419.C7
Gene No. 118122 Strand +
Start 1 End 186
Name OJ000403_14.0419.C7.o1.np Method AAT/NAP
Start 1 End 186
GI 6634721 Score 73
Exons 1..186
GI Descrip. (AC012463) T2E6.4 [Arabidopsis thaliana]

Seq. No. 56453 Seq. ID OJ000403_14.0419.C9
Gene No. 118123 Strand +
Start 1 End 703
Name OJ000403_14.0419.C9.o1.np Method AAT/NAP
Start 1 End 703
GI 7228438 Score 858
Exons 1..59, 144..554, 648..703
GI Descrip. (AP001366) EST C28952(C62945) corresponds to a region of the
predicted_gene.; Similar to maize transposon MuDR mudrA protein
isolog (AC003981) [Oryza sativa]

Seq. No. 56453 Seq. ID OJ000403_14.0419.C9
Gene No. 118123 Strand +

Start	1	End	703
Name	OJ000403_14.0419.C9.ol.gs	Method	GENSCAN
Start	144	End	668
GI	none	Score	.5
Exons	144..366, 648..668		

Seq. No.	56454	Seq. ID	OJ000403_14.0419.C11
Gene No.	118124	Strand	+
Start	1	End	3218
Name	OJ000403_14.0419.C11.o2.np	Method	AAT/NAP
Start	1	End	3218
GI	4755191	Score	383
Exons	1..82, 2317..3218		
GI Descrip.	(AC007018) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	56454	Seq. ID	OJ000403_14.0419.C11
Gene No.	118124	Strand	+
Start	1	End	3218
Name	OJ000403_14.0419.C11.ol.gs	Method	GENSCAN
Start	642	End	2130
GI	none	Score	.66
Exons	642..900, 1492..1624, 1735..2130		

Seq. No.	56454	Seq. ID	OJ000403_14.0419.C11
Gene No.	118125	Strand	-
Start	1	End	2003
Name	OJ000403_14.0419.C11.ol.np	Method	AAT/NAP
Start	1	End	2003
GI	7485939	Score	56
Exons	1..32, 1566..1603, 1636..1718, 1904..2003		
GI Descrip.	hypothetical protein F21E10.7 - Arabidopsis thaliana gi 3047080 gb AAC13593.1 (AF058914) contains similarity to Arabidopsis thaliana DNA-damage-repair/tolerance resistance protein DRT111 (SW:P42698)		

Seq. No.	56455	Seq. ID	OJ000403_14.0419.C13
Gene No.	118126	Strand	+
Start	112	End	631
Name	OJ000403_14.0419.C13.ol.gs	Method	GENSCAN
Start	112	End	631
GI	none	Score	.69
Exons	112..290, 301..442, 455..631		

Seq. No.	56455	Seq. ID	OJ000403_14.0419.C13
Gene No.	118127	Strand	-
Start	63	End	733
Name	OJ000403_14.0419.C13.ol.np	Method	AAT/NAP
Start	63	End	733
GI	7106512	Score	799
Exons	63..733		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118128	Strand	+
Start	1	End	2197

Name	OJ000403_14.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	2194
GI	7489805	Score	1517
Exons	1..2194		
GI Descrip.	polyprotein - maize retrotransposon Cinfu1-1 gi 4206306 gb AAD11615.1 (AF049110) prpol [Zea mays]		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118128	Strand	+
Start	1	End	2197
Name	OJ000403_14.0419.C14.o1.gs	Method	GENSCAN
Start	397	End	2197
GI	none	Score	.94
Exons	397..1278, 1366..2197		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118129	Strand	-
Start	3683	End	8090
Name	OJ000403_14.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	340	End	772
GI	none	Score	319
Exons	340..456, 341..772, 481..687		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118129	Strand	-
Start	3683	End	8090
Name	OJ000403_14.0419.C14.o2.tw	Method	TBLASTX:Wheat
Start	956	End	1384
GI	none	Score	234
Exons	956..1384		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118129	Strand	-
Start	3683	End	8090
Name	OJ000403_14.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	971	End	1432
GI	none	Score	345
Exons	971..1432, 1018..1293		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118129	Strand	-
Start	3683	End	8090
Name	OJ000403_14.0419.C14.o2.ts	Method	TBLASTX:Soybean
Start	1244	End	1618
GI	none	Score	93
Exons	1244..1387, 1273..1386, 1394..1618, 1492..1602		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118129	Strand	-
Start	3683	End	8090
Name	OJ000403_14.0419.C14.o4.tm	Method	TBLASTX:Maize
Start	1433	End	1603
GI	none	Score	209
Exons	1433..1603, 1435..1602		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118129	Strand	-

Start	3683	End	8090
Name	OJ000403_14.0419.C14.o2.gs	Method	GENSCAN
Start	3683	End	8041
GI	none	Score	.51
Exons	3683..4299, 6212..6508, 6538..6563, 6669..7467, 8002..8041		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118129	Strand	-
Start	3683	End	8090
Name	OJ000403_14.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	5410	End	5831
GI	none	Score	190
Exons	5410..5445, 5451..5666, 5452..5679, 5454..5675, 5734..5826, 5736..5831		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118129	Strand	-
Start	3683	End	8090
Name	OJ000403_14.0419.C14.o2.np	Method	AAT/NAP
Start	5631	End	8090
GI	6815097	Score	1625
Exons	5631..6396, 6538..7311, 8050..8090		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118129	Strand	-
Start	3683	End	8090
Name	OJ000403_14.0419.C14.o3.ts	Method	TBLASTX:Soybean
Start	5778	End	6122
GI	none	Score	38
Exons	5778..6008, 5899..5934, 6003..6122, 6004..6120		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118129	Strand	-
Start	3683	End	8090
Name	OJ000403_14.0419.C14.o3.tm	Method	TBLASTX:Maize
Start	5832	End	6122
GI	none	Score	166
Exons	5832..6122, 5833..6111		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118129	Strand	-
Start	3683	End	8090
Name	OJ000403_14.0419.C14.o3.tw	Method	TBLASTX:Wheat
Start	6111	End	6916
GI	none	Score	45
Exons	6111..6191, 6459..6536, 6597..6644, 6683..6916, 6684..6758, 6804..6875		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118129	Strand	-
Start	3683	End	8090
Name	OJ000403_14.0419.C14.o5.tm	Method	TBLASTX:Maize
Start	6474	End	6907
GI	none	Score	139
Exons	6474..6644, 6689..6907		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118129	Strand	-
Start	3683	End	8090
Name	OJ000403_14.0419.C14.ol.ts	Method	TBLASTX:Soybean
Start	6565	End	6952
GI	5509260	Score	73
Exons	6565..6645, 6573..6644, 6689..6952, 6803..6952		
GI Descrip.	-		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118129	Strand	-
Start	3683	End	8090
Name	OJ000403_14.0419.C14.ol.tc	Method	TBLASTX:Cress
Start	6695	End	6952
GI	none	Score	189
Exons	6695..6952		

Seq. No.	56456	Seq. ID	OJ000403_14.0419.C14
Gene No.	118129	Strand	-
Start	3683	End	8090
Name	OJ000403_14.0419.C14.ol.gp	Method	AAT/GAP
Start	7428	End	7790
GI	2309880	Score	696
Exons	7428..7790		
GI Descrip.	4521194/dbj AB013613.1 AB013613 3.0e-60 Oryza sativa DNA, centromere sequence RCB11		

Seq. No.	56457	Seq. ID	OJ000403_14.0419.C15
Gene No.	118130	Strand	-
Start	1265	End	1613
Name	OJ000403_14.0419.C15.ol.gs	Method	GENSCAN
Start	1265	End	1613
GI	none	Score	.57
Exons	1265..1391, 1537..1613		

Seq. No.	56458	Seq. ID	OJ000403_14.0419.C16
Gene No.	118131	Strand	-
Start	1	End	2183
Name	OJ000403_14.0419.C16.ol.np	Method	AAT/NAP
Start	1	End	2183
GI	6815097	Score	1420
Exons	1..26, 355..1103, 1218..1831, 2159..2183		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	56458	Seq. ID	OJ000403_14.0419.C16
Gene No.	118131	Strand	-
Start	1	End	2183
Name	OJ000403_14.0419.C16.ol.gs	Method	GENSCAN
Start	306	End	1925
GI	none	Score	.5
Exons	306..890, 1011..1119, 1222..1925		

Seq. No.	56459	Seq. ID	OJ000403_14.0419.C17
Gene No.	118132	Strand	-
Start	692	End	1075

Name	OJ000403_14.0419.C17.o1.gs	Method	GENSCAN
Start	692	End	1075
GI	none	Score	.5
Exons	692..1075		

Seq. No.	56460	Seq. ID	OJ000403_14.0419.C18
Gene No.	118133	Strand	+
Start	691	End	1050
Name	OJ000403_14.0419.C18.o1.gp	Method	AAT/GAP
Start	691	End	1050
GI	3761181	Score	419
Exons	691..717, 801..1050		
GI Descrip.	4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	56460	Seq. ID	OJ000403_14.0419.C18
Gene No.	118134	Strand	+
Start	2742	End	2992
Name	OJ000403_14.0419.C18.o2.np	Method	AAT/NAP
Start	2742	End	2992
GI	7106513	Score	178
Exons	2742..2785, 2884..2992		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	56460	Seq. ID	OJ000403_14.0419.C18
Gene No.	118135	Strand	-
Start	1	End	903
Name	OJ000403_14.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	903
GI	7106512	Score	119
Exons	1..45, 722..770, 844..903		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56460	Seq. ID	OJ000403_14.0419.C18
Gene No.	118136	Strand	-
Start	2813	End	2968
Name	OJ000403_14.0419.C18.o2.gs	Method	GENSCAN
Start	2813	End	2968
GI	none	Score	.89
Exons	2813..2968		

Seq. No.	56461	Seq. ID	OJ000403_14.0419.C19
Gene No.	118137	Strand	-
Start	1	End	1401
Name	OJ000403_14.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	1401
GI	7106512	Score	949
Exons	1..359, 1079..1401		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56461	Seq. ID	OJ000403_14.0419.C19
Gene No.	118137	Strand	-
Start	1	End	1401
Name	OJ000403_14.0419.C19.o1.gs	Method	GENSCAN
Start	67	End	1316

GI	none	Score	.71
Exons	67..359, 997..1316		
Seq. No.	56462	Seq. ID	OJ000403_14.0419.C20
Gene No.	118138	Strand	+
Start	1677	End	1806
Name	OJ000403_14.0419.C20.o2.np	Method	AAT/NAP
Start	1677	End	1806
GI	6721543	Score	108
Exons	1677..1806		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	56462	Seq. ID	OJ000403_14.0419.C20
Gene No.	118139	Strand	-
Start	1	End	1060
Name	OJ000403_14.0419.C20.o1.np	Method	AAT/NAP
Start	1	End	913
GI	7106512	Score	538
Exons	1..357; 401..780, 854..913		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56462	Seq. ID	OJ000403_14.0419.C20
Gene No.	118139	Strand	-
Start	1	End	1060
Name	OJ000403_14.0419.C20.o1.gp	Method	AAT/GAP
Start	811	End	1060
GI	3761181	Score	418
Exons	811..1060		
GI Descrip.	4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	56462	Seq. ID	OJ000403_14.0419.C20
Gene No.	118140	Strand	-
Start	2315	End	3129
Name	OJ000403_14.0419.C20.o2.gp	Method	AAT/GAP
Start	2037	End	2490
GI	LIB3431-045-P1-N1-A10	Score	856
Exons	2037..2490		
GI Descrip.	'5441876/dbj AP000367.1 AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	56462	Seq. ID	OJ000403_14.0419.C20
Gene No.	118140	Strand	-
Start	2315	End	3129
Name	OJ000403_14.0419.C20.o3.np	Method	AAT/NAP
Start	2291	End	2475
GI	7228442	Score	259
Exons	2291..2475		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	56462	Seq. ID	OJ000403_14.0419.C20
Gene No.	118140	Strand	-
Start	2315	End	3129
Name	OJ000403_14.0419.C20.o2.gs	Method	GENSCAN

Start	2315	End	3074
GI	none	Score	.81
Exons	2315..2475, 2625..2941, 2943..3074		

Seq. No.	56462	Seq. ID	OJ000403_14.0419.C20
Gene No.	118140	Strand	-
Start	2315	End	3129
Name	OJ000403_14.0419.C20.o4.np	Method	AAT/NAP
Start	2594	End	3129
GI	5441880	Score	.559
Exons	2594..2827, 2943..3129		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	56463	Seq. ID	OJ000403_14.0419.C21
Gene No.	118141	Strand	-
Start	44	End	1471
Name	OJ000403_14.0419.C21.o1.gs	Method	GENSCAN
Start	44	End	1408
GI	none	Score	.57
Exons	44..162, 268..418, 802..1097, 1299..1408		

Seq. No.	56463	Seq. ID	OJ000403_14.0419.C21
Gene No.	118141	Strand	-
Start	44	End	1471
Name	OJ000403_14.0419.C21.o1.np	Method	AAT/NAP
Start	173	End	1471
GI	7228442	Score	1160
Exons	173..324, 769..1471		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	56464	Seq. ID	OJ000403_14.0419.C23
Gene No.	118142	Strand	+
Start	244	End	877
Name	OJ000403_14.0419.C23.o1.gs	Method	GENSCAN
Start	244	End	877
GI	none	Score	.58
Exons	244..325, 618..719, 789..877		

Seq. No.	56465	Seq. ID	OJ000403_14.0419.C28
Gene No.	118143	Strand	+
Start	356	End	1699
Name	OJ000403_14.0419.C28.o1.gs	Method	GENSCAN
Start	356	End	1699
GI	none	Score	.56
Exons	356..471, 1165..1350, 1567..1699		

Seq. No.	56466	Seq. ID	OJ000403_14.0419.C29
Gene No.	118144	Strand	-
Start	407	End	1541
Name	OJ000403_14.0419.C29.o1.gs	Method	GENSCAN
Start	407	End	1541
GI	none	Score	.52
Exons	407..1541		

Seq. No.	56467	Seq. ID	OJ000403_14.0419.C30
Gene No.	118145	Strand	+
Start	1	End	969
Name	OJ000403_14.0419.C30.o2.np	Method	AAT/NAP
Start	1	End	969
GI	4680183	Score	126
Exons	1..31, 817..969		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	56467	Seq. ID	OJ000403_14.0419.C30
Gene No.	118145	Strand	+
Start	1	End	969
Name	OJ000403_14.0419.C30.o1.gp	Method	AAT/GAP
Start	136	End	249
GI	uC-osflcyp088b12b1	Score	141
Exons	136..249		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	56467	Seq. ID	OJ000403_14.0419.C30
Gene No.	118146	Strand	+
Start	1057	End	2850
Name	OJ000403_14.0419.C30.o3.np	Method	AAT/NAP
Start	1057	End	2850
GI	7248392	Score	202
Exons	1057..1154, 1906..2289, 2697..2850		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	56467	Seq. ID	OJ000403_14.0419.C30
Gene No.	118147	Strand	-
Start	1	End	847
Name	OJ000403_14.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	847
GI	6721561	Score	76
Exons	1..55, 761..847		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1 (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56467	Seq. ID	OJ000403_14.0419.C30
Gene No.	118148	Strand	-
Start	1379	End	4663
Name	OJ000403_14.0419.C30.o2.gs	Method	GENSCAN
Start	1379	End	4606
GI	none	Score	.47
Exons	1379..1435, 1790..1936, 2059..2217, 2283..2581, 2990..3135, 3802..3996, 4486..4606		

Seq. No.	56467	Seq. ID	OJ000403_14.0419.C30
Gene No.	118148	Strand	-
Start	1379	End	4663
Name	OJ000403_14.0419.C30.o4.np	Method	AAT/NAP
Start	3587	End	4663
GI	5911167	Score	798

Exons 3587..3717, 3802..4663
GI Descrip. (AF136221) putative transposase protein [Zea mays]

Seq. No.	56467	Seq. ID	OJ000403_14.0419.C30
Gene No.	118148	Strand	-
Start	1379	End	4663
Name	OJ000403_14.0419.C30.o1.tw	Method	TBLASTX:Wheat
Start	3621	End	4151
GI	none	Score	58
Exons	3621..3719, 3622..3726, 3795..4151, 3829..3918		

Seq. No.	56467	Seq. ID	OJ000403_14.0419.C30
Gene No.	118148	Strand	-
Start	1379	End	4663
Name	OJ000403_14.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	3784	End	4258
GI	none	Score	104
Exons	3784..4002, 3784..3942, 3789..4214, 3792..4247, 4061..4258		

Seq. No.	56467	Seq. ID	OJ000403_14.0419.C30
Gene No.	118148	Strand	-
Start	1379	End	4663
Name	OJ000403_14.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	3813	End	4199
GI	none	Score	85
Exons	3813..4052, 3814..4002, 4038..4142, 4062..4199		

Seq. No.	56467	Seq. ID	OJ000403_14.0419.C30
Gene No.	118148	Strand	-
Start	1379	End	4663
Name	OJ000403_14.0419.C30.o2.tm	Method	TBLASTX:Maize
Start	4272	End	4508
GI	none	Score	71
Exons	4272..4421, 4290..4508, 4291..4455		

Seq. No.	56468	Seq. ID	OJ000403_14.0419.C31
Gene No.	118149	Strand	-
Start	1	End	1644
Name	OJ000403_14.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	1644
GI	5032266	Score	198
Exons	1..449, 1554..1644		
GI Descrip.	(AF147265) similar to Arabidopsis thaliana putative En/Spm transposon protein (GB:AC005396)		

Seq. No.	56468	Seq. ID	OJ000403_14.0419.C31
Gene No.	118149	Strand	-
Start	1	End	1644
Name	OJ000403_14.0419.C31.o1.gs	Method	GENSCAN
Start	83	End	1283
GI	none	Score	.52
Exons	83..162, 270..577, 912..1091, 1234..1283		

Seq. No.	56469	Seq. ID	OJ000403_14.0419.C32
Gene No.	118150	Strand	-
Start	417	End	657
Name	OJ000403_14.0419.C32.o1.gp	Method	AAT/GAP

Start 417
GI none
Exons 417..657

End 657
Score 455

Seq. No. 56470
Gene No. 118151
Start 326
Name OJ000403_14.0419.C33.o1.np
Start 326
GI 7228442
Exons 326..1168
GI Descrip. (AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]

Seq. ID OJ000403_14.0419.C33
Strand +
End 1168
Method AAT/NAP
End 1168
Score 1412

Seq. No. 56470
Gene No. 118151
Start 326
Name OJ000403_14.0419.C33.o1.gs
Start 609
GI none
Exons 609..994

Seq. ID OJ000403_14.0419.C33
Strand +
End 1168
Method GENSCAN
End 994
Score .42

Seq. No. 56471
Gene No. 118152
Start 300
Name OJ000403_14.0419.C35.o1.gs
Start 300
GI none
Exons 300..402, 1413..1519

Seq. ID OJ000403_14.0419.C35
Strand -
End 1519
Method GENSCAN
End 1519
Score .78

Seq. No. 56471
Gene No. 118153
Start 2566
Name OJ000403_14.0419.C35.o2.gs
Start 2566
GI none
Exons 2566..2816, 2972..3006

Seq. ID OJ000403_14.0419.C35
Strand -
End 3006
Method GENSCAN
End 3006
Score .43

Seq. No. 56472
Gene No. 118154
Start 293
Name OJ000403_14.0419.C36.o1.gs
Start 293
GI none
Exons 293..1522

Seq. ID OJ000403_14.0419.C36
Strand +
End 2521
Method GENSCAN
End 1522
Score .46

Seq. No. 56472
Gene No. 118154
Start 293
Name OJ000403_14.0419.C36.o2.np
Start 293
GI 4680203
Exons 293..1152
GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. ID OJ000403_14.0419.C36
Strand +
End 2521
Method AAT/NAP
End 1152
Score 473

Seq. No. 56472

Seq. ID OJ000403_14.0419.C36

Gene No.	118154	Strand	+
Start	293	End	2521
Name	OJ000403_14.0419.C36.o1.np	Method	AAT/NAP
Start	293	End	2521
GI	4680203	Score	461
Exons	293..1160, 2455..2521		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	56472	Seq. ID	OJ000403_14.0419.C36
Gene No.	118154	Strand	+
Start	293	End	2521
Name	OJ000403_14.0419.C36.o2.tw	Method	TBLASTX:Wheat
Start	647	End	1150
GI	none	Score	208
Exons	647..1045, 886..1047, 1093..1131, 1094..1150		

Seq. No.	56472	Seq. ID	OJ000403_14.0419.C36
Gene No.	118154	Strand	+
Start	293	End	2521
Name	OJ000403_14.0419.C36.o1.ts	Method	TBLASTX:Soybean
Start	745	End	1064
GI	none	Score	262
Exons	745..768, 770..1045, 772..1038, 773..1063, 825..1064		

Seq. No.	56472	Seq. ID	OJ000403_14.0419.C36
Gene No.	118154	Strand	+
Start	293	End	2521
Name	OJ000403_14.0419.C36.o1.gp	Method	AAT/GAP
Start	1141	End	2276
GI	342_1.R1084	Score	1568
Exons	1141..1606, 1725..1829, 1939..2276		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	56472	Seq. ID	OJ000403_14.0419.C36
Gene No.	118154	Strand	+
Start	293	End	2521
Name	OJ000403_14.0419.C36.o3.gp	Method	AAT/GAP
Start	1141	End	2454
GI	342_1.R1084	Score	1881
Exons	1141..1606, 1725..1829, 1939..2454		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	56472	Seq. ID	OJ000403_14.0419.C36
Gene No.	118154	Strand	+
Start	293	End	2521
Name	OJ000403_14.0419.C36.o1.tw	Method	TBLASTX:Wheat
Start	1159	End	1447
GI	none	Score	140
Exons	1159..1272, 1160..1273, 1162..1281, 1286..1366, 1355..1447, 1381..1446		

Seq. No.	56473	Seq. ID	OJ000403_14.0419.C37
Gene No.	118155	Strand	+
Start	216	End	336
Name	OJ000403_14.0419.C37.o1.gs	Method	GENSCAN

Start 216
GI none
Exons 216..336

End 336
Score .87

Seq. No. 56473 Seq. ID OJ000403_14.0419.C37
Gene No. 118156 Strand -
Start 692 End 1293
Name OJ000403_14.0419.C37.o2.gs Method GENSCAN
Start 692 End 1293
GI none Score .62
Exons 692..742, 1035..1136, 1174..1293

Seq. No. 56473 Seq. ID OJ000403_14.0419.C37
Gene No. 118157 Strand -
Start 1305 End 1945
Name OJ000403_14.0419.C37.o1.tm Method TBLASTX:Maize
Start 1305 End 1945
GI none Score 53
Exons 1305..1451, 1308..1451, 1313..1411, 1314..1412, 1329..1454,
1329..1421, 1335..1406, 1385..1420, 1390..1455, 1438..1566,
1473..1565, 1475..1573, 1475..1585, 1476..1583, 1484..1576,
1487..1588, 1490..1573, 1614..1727, 1620..1724, 1621..1728,
1622..1738, 1622..1726, 1624..1731, 1624..1737, 1624..1725,
1624..1737, 1625..1738, 1630..1728, 1645..1743, 1745..1804,
1751..1777, 1762..1824, 1767..1814, 1801..1911, 1810..1911,
1824..1940, 1837..1944, 1852..1923, 1856..1945

Seq. No. 56474 Seq. ID OJ000403_14.0419.C38
Gene No. 118158 Strand +
Start 1080 End 1697
Name OJ000403_14.0419.C38.o1.gs Method GENSCAN
Start 1080 End 1697
GI none Score .83
Exons 1080..1179, 1642..1697

Seq. No. 56474 Seq. ID OJ000403_14.0419.C38
Gene No. 118159 Strand +
Start 5045 End 7814
Name OJ000403_14.0419.C38.o1.np Method AAT/NAP
Start 5045 End 7814
GI 7340884 Score 131
Exons 5045..5218, 7696..7814
GI Descrip. (AP001551) Similar to Antirrhinum majus transposon Tam3 gene for
transposase. (AB013982) [Oryza sativa]

Seq. No. 56474 Seq. ID OJ000403_14.0419.C38
Gene No. 118159 Strand +
Start 5045 End 7814
Name OJ000403_14.0419.C38.o3.gs Method GENSCAN
Start 5421 End 6334
GI none Score .86
Exons 5421..5520, 6261..6334

Seq. No. 56474 Seq. ID OJ000403_14.0419.C38
Gene No. 118160 Strand +
Start 8742 End 9228
Name OJ000403_14.0419.C38.o4.gs Method GENSCAN

Start	8742	End	9228
GI	none	Score	.42
Exons	8742..8747, 8784..9092, 9172..9228		

Seq. No.	56474	Seq. ID	OJ000403_14.0419.C38
Gene No.	118161	Strand	+
Start	14061	End	14938
Name	OJ000403_14.0419.C38.o3.np	Method	AAT/NAP
Start	14061	End	14938
GI	6907088	Score	528
Exons	14061..14197, 14373..14610, 14775..14938		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	56474	Seq. ID	OJ000403_14.0419.C38
Gene No.	118161	Strand	+
Start	14061	End	14938
Name	OJ000403_14.0419.C38.o4.np	Method	AAT/NAP
Start	14752	End	14938
GI	6069659	Score	108
Exons	14752..14938		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	56474	Seq. ID	OJ000403_14.0419.C38
Gene No.	118162	Strand	-
Start	4302	End	4898
Name	OJ000403_14.0419.C38.o2.gs	Method	GENSCAN
Start	4302	End	4898
GI	none	Score	.47
Exons	4302..4898		

Seq. No.	56474	Seq. ID	OJ000403_14.0419.C38
Gene No.	118163	Strand	-
Start	6759	End	14938
Name	OJ000403_14.0419.C38.o2.np	Method	AAT/NAP
Start	6759	End	14938
GI	7228438	Score	1403
Exons	6759..6805, 9491..9721, 9820..10126, 10219..10775, 12293..13265, 14903..14938		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	56474	Seq. ID	OJ000403_14.0419.C38
Gene No.	118163	Strand	-
Start	6759	End	14938
Name	OJ000403_14.0419.C38.o5.gs	Method	GENSCAN
Start	9585	End	13157
GI	none	Score	.54
Exons	9585..9735, 9828..10084, 10219..10987, 11070..11220, 11774..11887, 12005..13157		

Seq. No.	56474	Seq. ID	OJ000403_14.0419.C38
Gene No.	118163	Strand	-
Start	6759	End	14938
Name	OJ000403_14.0419.C38.o2.tw	Method	TBLASTX:Wheat
Start	10576	End	10905
GI	none	Score	100

Exons 10576..10608, 10645..10680, 10714..10842, 10715..10843,
10849..10902, 10852..10905

Seq. No.	56474	Seq. ID	OJ000403_14.0419.C38
Gene No.	118163	Strand	-
Start	6759	End	14938
Name	OJ000403_14.0419.C38.ol.tw	Method	TBLASTX:Wheat
Start	12603	End	12990
GI	none	Score	71
Exons	12603..12800, 12680..12766, 12699..12788, 12745..12792, 12813..12989, 12840..12989, 12841..12990		

Seq. No.	56474	Seq. ID	OJ000403_14.0419.C38
Gene No.	118163	Strand	-
Start	6759	End	14938
Name	OJ000403_14.0419.C38.ol.tm	Method	TBLASTX:Maize
Start	12699	End	13280
GI	none	Score	37
Exons	12699..12779, 12751..12771, 12819..13127, 12823..13128, 13128..13280, 13159..13278		

Seq. No.	56475	Seq. ID	OJ000403_14.0419.C41
Gene No.	118164	Strand	+
Start	317	End	576
Name	OJ000403_14.0419.C41.ol.gs	Method	GENSCAN
Start	317	End	576
GI	none	Score	.61
Exons	317..484, 517..576		

Seq. No.	56476	Seq. ID	OJ000403_16.0419.C1
Gene No.	118165	Strand	+
Start	47	End	3232
Name	OJ000403_16.0419.C1.ol.np	Method	AAT/NAP
Start	47	End	3220
GI	6979335	Score	.1858
Exons	47..133, 896..3220		
GI Descrip.	(AF172282) receptor-like protein kinase [Oryza sativa]		

Seq. No.	56476	Seq. ID	OJ000403_16.0419.C1
Gene No.	118165	Strand	+
Start	47	End	3232
Name	OJ000403_16.0419.C1.ol.gs	Method	GENSCAN
Start	662	End	3232
GI	none	Score	.87
Exons	662..709, 887..3232		

Seq. No.	56476	Seq. ID	OJ000403_16.0419.C1
Gene No.	118166	Strand	-
Start	2032	End	9431
Name	OJ000403_16.0419.C1.o3.tm	Method	TBLASTX:Maize
Start	896	End	1243
GI	none	Score	165
Exons	896..1150, 896..973, 1061..1162, 1145..1243		

Seq. No.	56476	Seq. ID	OJ000403_16.0419.C1
Gene No.	118166	Strand	-
Start	2032	End	9431

Name	OJ000403_16.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	995	End	3211
GI	none	Score	96
Exons	995..1147, 1274..1336, 1294..1380, 1472..1540, 1486..1542, 1627..1860, 1628..1867, 2240..2404, 2326..2385, 2398..2964, 2399..2914, 2971..3210, 2972..3211		

Seq. No.	56476	Seq. ID	OJ000403_16.0419.C1
Gene No.	118166	Strand	-
Start	2032	End	9431
Name	OJ000403_16.0419.C1.o2.ts	Method	TBLASTX:Soybean
Start	1562	End	1951
GI	none	Score	102
Exons	1562..1684, 1630..1683, 1679..1951, 1717..1872		

Seq. No.	56476	Seq. ID	OJ000403_16.0419.C1
Gene No.	118166	Strand	-
Start	2032	End	9431
Name	OJ000403_16.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	1678	End	2080
GI	none	Score	333
Exons	1678..1875, 1679..2080, 1799..2080		

Seq. No.	56476	Seq. ID	OJ000403_16.0419.C1
Gene No.	118166	Strand	-
Start	2032	End	9431
Name	OJ000403_16.0419.C1.o2.np	Method	AAT/NAP
Start	2032	End	9431
GI	7484957	Score	79
Exons	2032..2055, 3584..3986, 9388..9431		
GI Descrip.	extensin homolog F28A21.80 - Arabidopsis thaliana gi 4539386 emb CAB37452.1 (AL035526) extensin-like protein [Arabidopsis thaliana] gi 7268661 emb CAB78869.1 (AL161549) extensin-like protein [Arabidopsis thaliana]		

Seq. No.	56476	Seq. ID	OJ000403_16.0419.C1
Gene No.	118166	Strand	-
Start	2032	End	9431
Name	OJ000403_16.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	2223	End	2740
GI	none	Score	350
Exons	2223..2291, 2294..2590, 2296..2577, 2588..2740, 2596..2739		

Seq. No.	56476	Seq. ID	OJ000403_16.0419.C1
Gene No.	118166	Strand	-
Start	2032	End	9431
Name	OJ000403_16.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	2288	End	2734
GI	none	Score	153
Exons	2288..2416, 2290..2415, 2393..2602, 2401..2601, 2408..2629, 2579..2734, 2581..2730		

Seq. No.	56476	Seq. ID	OJ000403_16.0419.C1
Gene No.	118166	Strand	-
Start	2032	End	9431
Name	OJ000403_16.0419.C1.o2.tw	Method	TBLASTX:Wheat
Start	2458	End	2872

GI	none	Score	111
Exons	2458..2571, 2459..2611, 2606..2809, 2632..2775, 2810..2872, 2815..2871		

Seq. No.	56476	Seq. ID	OJ000403_16.0419.C1
Gene No.	118166	Strand	-
Start	2032	End	9431
Name	OJ000403_16.0419.C1.o2.tm	Method	TBLASTX:Maize
Start	2746	End	3205
GI	none	Score	219
Exons	2746..2928, 2747..2914, 2971..3204, 2972..3205		

Seq. No.	56476	Seq. ID	OJ000403_16.0419.C1
Gene No.	118166	Strand	-
Start	2032	End	9431
Name	OJ000403_16.0419.C1.o3.ts	Method	TBLASTX:Soybean
Start	2749	End	3168
GI	none	Score	147
Exons	2749..2844, 2750..2914, 2962..3168, 2996..3154		

Seq. No.	56476	Seq. ID	OJ000403_16.0419.C1
Gene No.	118166	Strand	-
Start	2032	End	9431
Name	OJ000403_16.0419.C1.o3.gs	Method	GENSCAN
Start	5838	End	8162
GI	none	Score	.74
Exons	5838..5885, 7686..7758, 7843..8162		

Seq. No.	56477	Seq. ID	OJ000403_16.0419.C2
Gene No.	118167	Strand	+
Start	821	End	3293
Name	OJ000403_16.0419.C2.o1.np	Method	AAT/NAP
Start	821	End	3242
GI	6979335	Score	1863
Exons	821..3242		
GI Descrip.	(AF172282) receptor-like protein kinase [Oryza sativa]		

Seq. No.	56477	Seq. ID	OJ000403_16.0419.C2
Gene No.	118167	Strand	+
Start	821	End	3293
Name	OJ000403_16.0419.C2.o1.gs	Method	GENSCAN
Start	843	End	3293
GI	none	Score	.93
Exons	843..3293		

Seq. No.	56477	Seq. ID	OJ000403_16.0419.C2
Gene No.	118167	Strand	+
Start	821	End	3293
Name	OJ000403_16.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	1017	End	3239
GI	none	Score	104
Exons	1017..1160, 1283..1333, 1284..1325, 1374..1433, 1455..1568, 1596..1856, 1881..2024, 2465..2584, 2466..2624, 2631..2987, 2654..2986, 2991..3239, 2993..3142		

Seq. No.	56477	Seq. ID	OJ000403_16.0419.C2
Gene No.	118167	Strand	+

Start	821	End	3293
Name	OJ000403_16.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	1545	End	1940
GI	none	Score	115
Exons	1545..1673, 1671..1940, 1706..1861		

Seq. No.	56477	Seq. ID	OJ000403_16.0419.C2
Gene No.	118167	Strand	+
Start	821	End	3293
Name	OJ000403_16.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	1614	End	2087
GI	none	Score	91
Exons	1614..1787, 1779..1889, 1890..2030, 2040..2087		

Seq. No.	56477	Seq. ID	OJ000403_16.0419.C2
Gene No.	118167	Strand	+
Start	821	End	3293
Name	OJ000403_16.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	1672	End	2069
GI	none	Score	107
Exons	1672..2067, 1680..2069, 1685..2056, 1759..2067		

Seq. No.	56477	Seq. ID	OJ000403_16.0419.C2
Gene No.	118167	Strand	+
Start	821	End	3293
Name	OJ000403_16.0419.C2.o3.ts	Method	TBLASTX:Soybean
Start	2312	End	2555
GI	none	Score	88
Exons	2312..2455, 2318..2443, 2319..2465, 2457..2555, 2465..2554		

Seq. No.	56477	Seq. ID	OJ000403_16.0419.C2
Gene No.	118167	Strand	+
Start	821	End	3293
Name	OJ000403_16.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	2463	End	3191
GI	none	Score	138
Exons	2463..2612, 2516..2608, 2627..2941, 2628..2981, 2988..3191		

Seq. No.	56477	Seq. ID	OJ000403_16.0419.C2
Gene No.	118167	Strand	+
Start	821	End	3293
Name	OJ000403_16.0419.C2.o2.tw	Method	TBLASTX:Wheat
Start	2478	End	2876
GI	none	Score	314
Exons	2478..2876, 2654..2875		

Seq. No.	56477	Seq. ID	OJ000403_16.0419.C2
Gene No.	118167	Strand	+
Start	821	End	3293
Name	OJ000403_16.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	2556	End	3209
GI	none	Score	61
Exons	2556..2615, 2598..2801, 2648..2797, 2810..2953, 2817..2951, 3066..3209		

Seq. No.	56478	Seq. ID	OJ000403_16.0419.C3
Gene No.	118168	Strand	+

Start	4581	End	7309
Name	OJ000403_16.0419.C3.o2.gs	Method	GENSCAN
Start	4581	End	7007
GI	none	Score	.95
Exons	4581..7007		

Seq. No.	56478	Seq. ID	OJ000403_16.0419.C3
Gene No.	118168	Strand	+
Start	4581	End	7309
Name	OJ000403_16.0419.C3.o1.np	Method	AAT/NAP
Start	4583	End	7309
GI	7428025	Score	1826
Exons	4583..6984, 7209..7309		
GI Descrip.	S-receptor kinase (EC 2.7.1.-) PK3 precursor - maize gi 3445397 emb CAA09029.1 (AJ010166) S-domain receptor-like protein kinase [Zea mays]		

Seq. No.	56478	Seq. ID	OJ000403_16.0419.C3
Gene No.	118168	Strand	+
Start	4581	End	7309
Name	OJ000403_16.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	4758	End	6979
GI	none	Score	115
Exons	4758..4901, 5022..5063, 5213..5278, 5214..5309, 5343..5597, 5712..5765, 6086..6145, 6158..6322, 6159..6347, 6162..6329, 6354..6686, 6389..6685, 6726..6974, 6729..6935, 6743..6979		

Seq. No.	56478	Seq. ID	OJ000403_16.0419.C3
Gene No.	118168	Strand	+
Start	4581	End	7309
Name	OJ000403_16.0419.C3.o2.ts	Method	TBLASTX:Soybean
Start	5028	End	5564
GI	none	Score	119
Exons	5028..5147, 5232..5564		

Seq. No.	56478	Seq. ID	OJ000403_16.0419.C3
Gene No.	118168	Strand	+
Start	4581	End	7309
Name	OJ000403_16.0419.C3.o4.tm	Method	TBLASTX:Maize
Start	5355	End	5828
GI	none	Score	93
Exons	5355..5528, 5520..5630, 5631..5774, 5781..5828		

Seq. No.	56478	Seq. ID	OJ000403_16.0419.C3
Gene No.	118168	Strand	+
Start	4581	End	7309
Name	OJ000403_16.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	5420	End	5810
GI	none	Score	384
Exons	5420..5605, 5421..5810, 5421..5810		

Seq. No.	56478	Seq. ID	OJ000403_16.0419.C3
Gene No.	118168	Strand	+
Start	4581	End	7309
Name	OJ000403_16.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	6050	End	6491
GI	none	Score	140

Exons 6050..6175, 6051..6176, 6153..6356, 6161..6349, 6366..6491, 6371..6490

Seq. No.	56478	Seq. ID	OJ000403_16.0419.C3
Gene No.	118168	Strand	+
Start	4581	End	7309
Name	OJ000403_16.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	6054	End	6497
GI	none	Score	332
Exons	6054..6350, 6056..6337, 6273..6353, 6354..6497, 6371..6490, 6372..6491		

Seq. No.	56478	Seq. ID	OJ000403_16.0419.C3
Gene No.	118168	Strand	+
Start	4581	End	7309
Name	OJ000403_16.0419.C3.o2.tw	Method	TBLASTX:Wheat
Start	6213	End	6611
GI	none	Score	276
Exons	6213..6611, 6389..6610		

Seq. No.	56478	Seq. ID	OJ000403_16.0419.C3
Gene No.	118168	Strand	+
Start	4581	End	7309
Name	OJ000403_16.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	6492	End	6689
GI	none	Score	265
Exons	6492..6689, 6500..6685		

Seq. No.	56478	Seq. ID	OJ000403_16.0419.C3
Gene No.	118168	Strand	+
Start	4581	End	7309
Name	OJ000403_16.0419.C3.o3.ts	Method	TBLASTX:Soybean
Start	6507	End	6944
GI	none	Score	39
Exons	6507..6536, 6545..6697, 6552..6686, 6767..6940, 6801..6944		

Seq. No.	56478	Seq. ID	OJ000403_16.0419.C3
Gene No.	118168	Strand	+
Start	4581	End	7309
Name	OJ000403_16.0419.C3.o3.tm	Method	TBLASTX:Maize
Start	6695	End	6962
GI	none	Score	229
Exons	6695..6940, 6696..6962		

Seq. No.	56479	Seq. ID	OJ000403_16.0419.C4
Gene No.	118169	Strand	+
Start	2581	End	4989
Name	OJ000403_16.0419.C4.o1.np	Method	AAT/NAP
Start	2581	End	4989
GI	6979335	Score	1846
Exons	2581..4989		
GI Descrip.	(AF172282) receptor-like protein kinase [Oryza sativa]		

Seq. No.	56479	Seq. ID	OJ000403_16.0419.C4
Gene No.	118170	Strand	+
Start	7136	End	8389
Name	OJ000403_16.0419.C4.o2.np	Method	AAT/NAP

Start	7136	End	8389
GI	7428025	Score	637
Exons	7136..7180, 7508..8389		
GI Descrip.	S-receptor kinase (EC:2.7.1.-) PK3 precursor - maize gi 3445397 emb CAA09029.1 (AJ010166) S-domain receptor-like protein kinase [Zea mays]		

Seq. No.	56479	Seq. ID	OJ000403_16.0419.C4
Gene No.	118170	Strand	+
Start	7136	End	8389
Name	OJ000403_16.0419.C4.o2.gs	Method	GENSCAN
Start	7457	End	8264
GI	none	Score	.64
Exons	7457..8264		

Seq. No.	56479	Seq. ID	OJ000403_16.0419.C4
Gene No.	118171	Strand	-
Start	6933	End	8383
Name	OJ000403_16.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	2773	End	8332
GI	none	Score	106
Exons	2773..2916, 2778..2918, 3043..3081, 3045..3089, 3130..3189, 3205..3324, 3361..3612, 3658..3780, 4074..4157, 4173..4334, 4174..4380, 4378..4698, 4401..4733, 4738..4986, 4858..4947, 7622..7771, 7898..7942, 7985..8044, 8096..8188, 8237..8332		

Seq. No.	56479	Seq. ID	OJ000403_16.0419.C4
Gene No.	118171	Strand	-
Start	6933	End	8383
Name	OJ000403_16.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	3043	End	8383
GI	none	Score	91
Exons	3043..3162, 3247..3579, 7904..8035, 8111..8308, 8336..8383		

Seq. No.	56479	Seq. ID	OJ000403_16.0419.C4
Gene No.	118171	Strand	-
Start	6933	End	8383
Name	OJ000403_16.0419.C4.o4.tm	Method	TBLASTX:Maize
Start	3358	End	3843
GI	none	Score	93
Exons	3358..3543, 3535..3645, 3652..3789, 3796..3843		

Seq. No.	56479	Seq. ID	OJ000403_16.0419.C4
Gene No.	118171	Strand	-
Start	6933	End	8383
Name	OJ000403_16.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	3425	End	3825
GI	none	Score	114
Exons	3425..3823, 3436..3825, 3489..3824		

Seq. No.	56479	Seq. ID	OJ000403_16.0419.C4
Gene No.	118171	Strand	-
Start	6933	End	8383
Name	OJ000403_16.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	4062	End	4500
GI	none	Score	56
Exons	4062..4187, 4063..4119, 4082..4168, 4119..4172, 4173..4361,		

4173..4346, 4174..4371, 4180..4350, 4181..4354, 4378..4500,
4383..4499

Seq. No.	56479	Seq. ID	OJ000403_16.0419.C4
Gene No.	118171	Strand	-
Start	6933	End	8383
Name	OJ000403_16.0419.C4.o3.ts	Method	TBLASTX:Soybean
Start	4066	End	4302
GI	none	Score	195
Exons	4066..4302, 4075..4269, 4083..4301		

Seq. No.	56479	Seq. ID	OJ000403_16.0419.C4
Gene No.	118171	Strand	-
Start	6933	End	8383
Name	OJ000403_16.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	4231	End	4641
GI	none	Score	109
Exons	4231..4362, 4378..4578, 4383..4544, 4582..4641		

Seq. No.	56479	Seq. ID	OJ000403_16.0419.C4
Gene No.	118171	Strand	-
Start	6933	End	8383
Name	OJ000403_16.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	4303	End	4992
GI	none	Score	74
Exons	4303..4431, 4303..4353, 4378..4581, 4384..4545, 4395..4583, 4557..4700, 4564..4698, 4640..4711, 4816..4992		

Seq. No.	56479	Seq. ID	OJ000403_16.0419.C4
Gene No.	118171	Strand	-
Start	6933	End	8383
Name	OJ000403_16.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	4503	End	4701
GI	none	Score	289
Exons	4503..4697, 4504..4701		

Seq. No.	56479	Seq. ID	OJ000403_16.0419.C4
Gene No.	118171	Strand	-
Start	6933	End	8383
Name	OJ000403_16.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	4707	End	4974
GI	none	Score	234
Exons	4707..4973, 4708..4974		

Seq. No.	56479	Seq. ID	OJ000403_16.0419.C4
Gene No.	118171	Strand	-
Start	6933	End	8383
Name	OJ000403_16.0419.C4.o1.gp	Method	AAT/GAP
Start	6933	End	7519
GI	5455363	Score	87
Exons	6933..6999, 7495..7519		
GI Descrip.	3176667 1.0e-17 (AC004393) Similar to hypothetical 41.9KD protein gb_1001369 from sequence of Synechocystis sp. gb_D64006: [Arabidopsis thaliana]		

Seq. No.	56480	Seq. ID	OJ000403_16.0419.C5
Gene No.	118172	Strand	+

Start	1	End	2856
Name	OJ000403_16.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	1377
GI	6979335	Score	1378
Exons	1..1377		
GI Descrip.	(AF172282) receptor-like protein kinase [Oryza sativa]		

Seq. No.	56480	Seq. ID	OJ000403_16.0419.C5
Gene No.	118172	Strand	+
Start	1	End	2856
Name	OJ000403_16.0419.C5.o1.gs	Method	GENSCAN
Start	45	End	2856
GI	none	Score	.53
Exons	45..1381, 1909..1951, 2467..2856		

Seq. No.	56480	Seq. ID	OJ000403_16.0419.C5
Gene No.	118173	Strand	-
Start	618	End	1029
Name	OJ000403_16.0419.C5.o1.gp	Method	AAT/GAP
Start	618	End	1029
GI	uC-osflcyp017c11b1	Score	812
Exons	618..1029		
GI Descrip.	'3445397/emb CAA09029.1 3.0e-55 (AJ010166) S-domain receptor-like protein kinase [Zea mays]'		

Seq. No.	56480	Seq. ID	OJ000403_16.0419.C5
Gene No.	118174	Strand	-
Start	1615	End	2349
Name	OJ000403_16.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	453	End	758
GI	none	Score	155
Exons	453..578, 461..577, 561..758, 563..751		

Seq. No.	56480	Seq. ID	OJ000403_16.0419.C5
Gene No.	118174	Strand	-
Start	1615	End	2349
Name	OJ000403_16.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	456	End	902
GI	none	Score	358
Exons	456..767, 458..760, 750..902, 756..881, 764..895		

Seq. No.	56480	Seq. ID	OJ000403_16.0419.C5
Gene No.	118174	Strand	-
Start	1615	End	2349
Name	OJ000403_16.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	465	End	1361
GI	none	Score	102
Exons	465..566, 488..547, 549..1091, 560..724, 645..746, 794..949, 1101..1361		

Seq. No.	56480	Seq. ID	OJ000403_16.0419.C5
Gene No.	118174	Strand	-
Start	1615	End	2349
Name	OJ000403_16.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	621	End	1034
GI	none	Score	110
Exons	621..773, 768..947, 771..935, 794..937, 972..1034, 995..1033		

Seq. No.	56480	Seq. ID	OJ000403_16.0419.C5
Gene No.	118174	Strand	-
Start	1615	End	2349
Name	OJ000403_16.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	764	End	1364
GI	none	Score	84
Exons	764..949, 766..1140, 768..1364, 992..1363		

Seq. No.	56480	Seq. ID	OJ000403_16.0419.C5
Gene No.	118174	Strand	-
Start	1615	End	2349
Name	OJ000403_16.0419.C5.o2.ts	Method	TBLASTX:Soybean
Start	957	End	1346
GI	none	Score	168
Exons	957..1091, 989..1111, 1166..1342, 1203..1346		

Seq. No.	56480	Seq. ID	OJ000403_16.0419.C5
Gene No.	118174	Strand	-
Start	1615	End	2349
Name	OJ000403_16.0419.C5.o2.gp	Method	AAT/GAP
Start	1615	End	2251
GI	uC-osflcyp024b07b1	Score	575
Exons	1615..1733, 1824..1930, 2129..2251		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	56480	Seq. ID	OJ000403_16.0419.C5
Gene No.	118174	Strand	-
Start	1615	End	2349
Name	OJ000403_16.0419.C5.o3.gp	Method	AAT/GAP
Start	1813	End	2349
GI	uC-osflcyp024b07b1	Score	518
Exons	1813..1930, 2129..2349		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	56481	Seq. ID	OJ000403_16.0419.C7
Gene No.	118175	Strand	-
Start	393	End	866
Name	OJ000403_16.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	372	End	854
GI	none	Score	561
Exons	372..854, 397..801		

Seq. No.	56481	Seq. ID	OJ000403_16.0419.C7
Gene No.	118175	Strand	-
Start	393	End	866
Name	OJ000403_16.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	390	End	836
GI	none	Score	185
Exons	390..686, 393..836, 550..801		

Seq. No.	56481	Seq. ID	OJ000403_16.0419.C7
Gene No.	118175	Strand	-
Start	393	End	866
Name	OJ000403_16.0419.C7.o1.gs	Method	GENSCAN

Start 393
GI none
Exons 393..803

End 803
Score .93

Seq. No. 56481
Gene No. 118175
Start 393
Name OJ000403_16.0419.C7.o1.tw
Start 393
GI none
Exons 393..812, 397..801

Seq. ID OJ000403_16.0419.C7
Strand -
End 866
Method TBLASTX:Wheat
End 812
Score 570

Seq. No. 56481
Gene No. 118175
Start 393
Name OJ000403_16.0419.C7.o1.ts
Start 393
GI none
Exons 393..809, 396..686, 397..801

Seq. ID OJ000403_16.0419.C7
Strand -
End 866
Method TBLASTX:Soybean
End 809
Score 253

Seq. No. 56481
Gene No. 118175
Start 393
Name OJ000403_16.0419.C7.o1.np
Start 396
GI 122085
Exons 396..803

Seq. ID OJ000403_16.0419.C7
Strand -
End 866
Method AAT/NAP
End 803
Score 673

GI Descrip. HISTONE H3 gi|81641|pir||S06250 histone H3 - Arabidopsis
thaliana gi|82482|pir||S04099 histone H3 (variant H3R-21) - rice
gi|1362194|pir||S57626 histone H3 - maize gi|20251|emb|CAA31969|
(X13678) histone H3 (AA 1-136) [Oryza sativa]
gi|20253|emb|CAA31970| (X13680) histone H3 (AA 1-136) [Oryza
sativa] gi|168493 (M36658) histone H3 (H3C3) [Zea mays]
gi|168495 (M13378) h

Seq. No. 56481
Gene No. 118175
Start 393
Name OJ000403_16.0419.C7.o1.gp
Start 529
GI 287222
Exons 529..866

Seq. ID OJ000403_16.0419.C7
Strand -
End 866
Method AAT/GAP
End 866
Score 629

GI Descrip. 122070/sp|P08860|H32_ORYSA 3.0e-40 HISTONE H3
>gi_82483_pir_A25564 histone H3 - rice >gi_169793 (M15664)
histone 3 [Oryza sativa] >gi_940018 (U25664) histone H3 [Oryza
sativa]

Seq. No. 56482
Gene No. 118176
Start 4872
Name OJ000403_16.0419.C10.o2.gp
Start 4872
GI 708 1.R1084
Exons 4872..5236, 5324..5440

Seq. ID OJ000403_16.0419.C10
Strand +
End 6360
Method AAT/GAP
End 5440
Score 810

GI Descrip. '433815/emb|X61280|OSHPGRP 1.0e-139 O.sativa gene for
hydroxyproline-rich glycoprotein'

Seq. No.	56482	Seq. ID	OJ000403_16.0419.C10
Gene No.	118176	Strand	+
Start	4872	End	6360
Name	OJ000403_16.0419.C10.o3.gp	Method	AAT/GAP
Start	4872	End	5443
GI	708_1.R1084	Score	812
Exons	4872..5236, 5324..5443		
GI Descrip.	'433815/emb X61280 OSHPRGP 1.0e-139 O.sativa gene for hydroxyproline-rich glycoprotein'		

Seq. No.	56482	Seq. ID	OJ000403_16.0419.C10
Gene No.	118176	Strand	+
Start	4872	End	6360
Name	OJ000403_16.0419.C10.o1.gs	Method	GENSCAN
Start	4951	End	5724
GI	none	Score	.94
Exons	4951..5724		

Seq. No.	56482	Seq. ID	OJ000403_16.0419.C10
Gene No.	118176	Strand	+
Start	4872	End	6360
Name	OJ000403_16.0419.C10.o1.np	Method	AAT/NAP
Start	4951	End	5721
GI	100687	Score	1172
Exons	4951..5721		
GI Descrip.	hydroxyproline-rich glycoprotein - rice gi 433816 emb CAA43583.1 (X61280) hydroxyproline-rich glycoprotein [Oryza sativa]		

Seq. No.	56482	Seq. ID	OJ000403_16.0419.C10
Gene No.	118176	Strand	+
Start	4872	End	6360
Name	OJ000403_16.0419.C10.o4.gp	Method	AAT/GAP
Start	5271	End	6360
GI	17657_1.R1084	Score	1430
Exons	5271..5761, 6020..6360		
GI Descrip.	'433815/emb X61280 OSHPRGP 0.0e+00 O.sativa gene for hydroxyproline-rich glycoprotein'		

Seq. No.	56482	Seq. ID	OJ000403_16.0419.C10
Gene No.	118177	Strand	+
Start	6836	End	7111
Name	OJ000403_16.0419.C10.o2.gs	Method	GENSCAN
Start	6836	End	7111
GI	none	Score	.59
Exons	6836..7111		

Seq. No.	56482	Seq. ID	OJ000403_16.0419.C10
Gene No.	118178	Strand	-
Start	4251	End	4510
Name	OJ000403_16.0419.C10.o1.gp	Method	AAT/GAP
Start	4251	End	4510
GI	LIB3431-010-P1-N1-F11	Score	453
Exons	4251..4510		
GI Descrip.	'287403/dbj D10838 RICSBE1 1.0e-111 Rice gene for starch branching enzyme'		

Seq. No.	56482	Seq. ID	OJ000403_16.0419.C10
Gene No.	118179	Strand	-
Start	7882	End	11903
Name	OJ000403_16.0419.C10.o3.gs	Method	GENSCAN
Start	7882	End	11903
GI	none	Score	.74
Exons	7882..8064, 9488..9513, 10335..10488, 10663..10726, 11763..11903		

Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118180	Strand	+
Start	10922	End	18953
Name	OJ000403_16.0419.C11.o2.gs	Method	GENSCAN
Start	10922	End	18953
GI	none	Score	.47
Exons	10922..11075, 11581..11829, 12742..12956, 13132..13228, 14902..15062, 15885..16178, 17060..17343, 17356..17485, 18037..18235, 18853..18953		

Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118180	Strand	+
Start	10922	End	18953
Name	OJ000403_16.0419.C11.o3.np	Method	AAT/NAP
Start	17178	End	17701
GI	6630539	Score	345
Exons	17178..17701		
GI Descrip.	(AC011708) putative RING zinc finger protein [Arabidopsis thaliana]		

Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118181	Strand	-
Start	949	End	9626
Name	OJ000403_16.0419.C11.o1.np	Method	AAT/NAP
Start	918	End	4897
GI	6466937	Score	1631
Exons	918..4394, 4439..4897		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118181	Strand	-
Start	949	End	9626
Name	OJ000403_16.0419.C11.o1.gs	Method	GENSCAN
Start	949	End	9626
GI	none	Score	.5
Exons	949..1371, 1921..3669, 3874..3981, 4015..4118, 4276..5391, 5770..5933, 5964..6023, 7292..7543, 8055..8098, 9621..9626		

Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118181	Strand	-
Start	949	End	9626
Name	OJ000403_16.0419.C11.o2.np	Method	AAT/NAP
Start	3719	End	6302
GI	4585933	Score	70
Exons	3719..3789, 4756..4913, 6253..6302		
GI Descrip.	(AC007211) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
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Gene No.	118182	Strand	-
Start	10767	End	11239
Name	OJ000403_16.0419.C11.o3.tm	Method	TBLASTX:Maize
Start	887	End	1671
GI	none	Score	78
Exons	887..979, 1015..1245, 1016..1171, 1240..1428, 1415..1570, 1416..1571, 1576..1671		
Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118182	Strand	-
Start	10767	End	11239
Name	OJ000403_16.0419.C11.o3.tw	Method	TBLASTX:Wheat
Start	1421	End	1783
GI	none	Score	69
Exons	1421..1528, 1612..1782, 1616..1783		
Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118182	Strand	-
Start	10767	End	11239
Name	OJ000403_16.0419.C11.o5.tm	Method	TBLASTX:Maize
Start	1672	End	1858
GI	none	Score	132
Exons	1672..1851, 1673..1858		
Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118182	Strand	-
Start	10767	End	11239
Name	OJ000403_16.0419.C11.o4.tw	Method	TBLASTX:Wheat
Start	1840	End	2148
GI	none	Score	77
Exons	1840..2148, 1859..1993		
Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118182	Strand	-
Start	10767	End	11239
Name	OJ000403_16.0419.C11.o4.tm	Method	TBLASTX:Maize
Start	1903	End	2343
GI	none	Score	74
Exons	1903..2148, 1904..2035, 2138..2338, 2170..2343		
Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118182	Strand	-
Start	10767	End	11239
Name	OJ000403_16.0419.C11.o4.ts	Method	TBLASTX:Soybean
Start	2329	End	2584
GI	none	Score	98
Exons	2329..2583, 2435..2584		
Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118182	Strand	-
Start	10767	End	11239
Name	OJ000403_16.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	2344	End	2878
GI	none	Score	349
Exons	2344..2865, 2351..2866, 2513..2878		
Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11

Gene No.	118182	Strand	-
Start	10767	End	11239
Name	OJ000403_16.0419.C11.o2.tw	Method	TBLASTX:Wheat
Start	2494	End	2895
GI	none	Score	149
Exons	2494..2895, 2531..2893		
Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118182	Strand	-
Start	10767	End	11239
Name	OJ000403_16.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	2620	End	2986
GI	none	Score	102
Exons	2620..2967, 2678..2806, 2834..2986		
Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118182	Strand	-
Start	10767	End	11239
Name	OJ000403_16.0419.C11.o2.tm	Method	TBLASTX:Maize
Start	2890	End	3366
GI	none	Score	309
Exons	2890..3366, 2909..3361		
Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118182	Strand	-
Start	10767	End	11239
Name	OJ000403_16.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	2944	End	3426
GI	none	Score	199
Exons	2944..3426, 2978..3415		
Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118182	Strand	-
Start	10767	End	11239
Name	OJ000403_16.0419.C11.o3.ts	Method	TBLASTX:Soybean
Start	3076	End	3390
GI	none	Score	210
Exons	3076..3390		
Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118182	Strand	-
Start	10767	End	11239
Name	OJ000403_16.0419.C11.o8.tm	Method	TBLASTX:Maize
Start	3631	End	3969
GI	none	Score	102
Exons	3631..3969, 3679..3867, 3695..3877		
Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118182	Strand	-
Start	10767	End	11239
Name	OJ000403_16.0419.C11.o1.gp	Method	AAT/GAP
Start	10767	End	11239
GI	LIB3434-018-P1-K1-A8	Score	858
Exons	10767..11239		
GI Descrip.	'5669664/gb AF100766.1 AF100766 6.0e-10 Oryza sativa receptor-like kinase (8ARK2) gene, complete cds'		

Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118183	Strand	
Start	17253	End	17653
Name	OJ000403_16.0419.C11.o6.tm	Method	TBLASTX:Maize
Start	17253	End	17526
GI	none	Score	82
Exons	17253..17366, 17254..17367, 17254..17406, 17258..17416, 17330..17416, 17393..17524, 17405..17524, 17422..17526, 17427..17525, 17437..17526		

Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118183	Strand	
Start	17253	End	17653
Name	OJ000403_16.0419.C11.o2.ts	Method	TBLASTX:Soybean
Start	17267	End	17635
GI	none	Score	58
Exons	17267..17332, 17272..17364, 17330..17392, 17399..17593, 17402..17635, 17404..17628		

Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118183	Strand	
Start	17253	End	17653
Name	OJ000403_16.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	17413	End	17653
GI	none	Score	235
Exons	17413..17616, 17417..17653		

Seq. No.	56483	Seq. ID	OJ000403_16.0419.C11
Gene No.	118184	Strand	
Start	17571	End	17869
Name	OJ000403_16.0419.C11.o7.tm	Method	TBLASTX:Maize
Start	17571	End	17869
GI	none	Score	180
Exons	17571..17669, 17572..17670, 17573..17674, 17688..17777, 17697..17777, 17833..17868, 17834..17869		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118185	Strand	+
Start	1	End	251
Name	OJ000403_16.0419.C12.o1.gp	Method	AAT/GAP
Start	1	End	251
GI	267 5.R1084	Score	472
Exons	1..251		
GI Descrip.	'122087/sp P02300 H3_PEA 8.0e-61 HISTONE H3 >gi_81849_pir_S04520 histone H3 (clone pH3c-1) - alfalfa >gi_82609_pir_A26014 histone H3 - wheat >gi_19607_emb_CAA31964_ (X13673) histone H3 (AA 1-136) [Medicago sativa] >gi_19609_emb_CAA31965_(X13674) histone H3 (AA 1-136) [Medicago sativa] >gi_21797_emb_CAA25451_(X00937) H3 histone [Triticum aestivum] >gi_488565 (U09459) histone H3.1 [M'		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118185	Strand	+
Start	1	End	251
Name	OJ000403_16.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	122
GI	122084	Score	201

Exons 1..122
 GI Descrip. HISTONE H3 gi|70754|pir||HSBH3 histone H3 - barley (fragment)
 gi|167061|gb|AAA32965.1| (M34928) histone H3 protein [Hordeum
 vulgare] gi|225348|prf||1301219A histone H3 [Hordeum vulgare
 var. distichum]

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118186	Strand	+
Start	2076	End	7050
Name	OJ000403_16.0419.C12.o1.gs	Method	GENSCAN
Start	2076	End	7050
GI	none	Score	.42
Exons	2076..2238, 2281..4389, 6439..6682, 6775..6862, 6934..7050		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118186	Strand	+
Start	2076	End	7050
Name	OJ000403_16.0419.C12.o2.np	Method	AAT/NAP
Start	2085	End	5293
GI	7428025	Score	1751
Exons	2085..4463, 5162..5293		

GI Descrip. S-receptor kinase (EC 2.7.1.-) PK3 precursor - maize
 gi|3445397|emb|CAA09029.1| (AJ010166) S-domain receptor-like
 protein kinase [Zea mays]

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118187	Strand	+
Start	9676	End	11106
Name	OJ000403_16.0419.C12.o3.gs	Method	GENSCAN
Start	9676	End	10906
GI	none	Score	.95
Exons	9676..10906		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118187	Strand	+
Start	9676	End	11106
Name	OJ000403_16.0419.C12.o3.np	Method	AAT/NAP
Start	9676	End	11106
GI	6721517	Score	1270
Exons	9676..9757, 9795..9917, 9976..10752, 10801..11106		
GI Descrip.	(AP001072) Similar to polyprotein. (AF061282) [Oryza sativa]		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118188	Strand	-
Start	7448	End	8843
Name	OJ000403_16.0419.C12.o2.tc	Method	TBLASTX:Cress
Start	2	End	149
GI	none	Score	210
Exons	2..121, 3..149		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118188	Strand	-
Start	7448	End	8843
Name	OJ000403_16.0419.C12.o4.tw	Method	TBLASTX:Wheat
Start	2	End	125
GI	none	Score	202
Exons	2..121, 3..125		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118188	Strand	-
Start	7448	End	8843
Name	OJ000403_16.0419.C12.o4.ts	Method	TBLASTX:Soybean
Start	2	End	146
GI	none	Score	203
Exons	2..121, 3..146, 6..134		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118188	Strand	-
Start	7448	End	8843
Name	OJ000403_16.0419.C12.o4.tm	Method	TBLASTX:Maize
Start	2	End	146
GI	none	Score	212
Exons	2..121, 3..146		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118188	Strand	-
Start	7448	End	8843
Name	OJ000403_16.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	2201	End	4466
GI	none	Score	119
Exons	2201..2248, 2265..2423, 2270..2413, 2526..2579, 2685..2774, 2898..3110, 3138..3263, 3560..3658, 3561..3662, 3645..3857, 3666..3833, 3870..4190, 3893..4189, 4233..4466		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118188	Strand	-
Start	7448	End	8843
Name	OJ000403_16.0419.C12.o3.ts	Method	TBLASTX:Soybean
Start	2796	End	3128
GI	none	Score	92
Exons	2796..2924, 2816..2923, 2928..3128, 2960..3121		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118188	Strand	-
Start	7448	End	8843
Name	OJ000403_16.0419.C12.o2.tw	Method	TBLASTX:Wheat
Start	2921	End	3311
GI	none	Score	249
Exons	2921..3136, 2934..3149, 3141..3275, 3206..3259, 3273..3311		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118188	Strand	-
Start	7448	End	8843
Name	OJ000403_16.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	3548	End	3851
GI	none	Score	140
Exons	3548..3673, 3549..3674, 3657..3851, 3659..3847		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118188	Strand	-
Start	7448	End	8843
Name	OJ000403_16.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	3552	End	3994
GI	none	Score	500

Exons 3552..3992, 3554..3994

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118188	Strand	-
Start	7448	End	8843
Name	OJ000403_16.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	3716	End	4133
GI	none	Score	334
Exons	3716..4036, 3717..4070, 4074..4133		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118188	Strand	-
Start	7448	End	8843
Name	OJ000403_16.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	3852	End	4463
GI	none	Score	422
Exons	3852..4193, 3869..4180, 3948..4190, 4203..4463, 4226..4414		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118188	Strand	-
Start	7448	End	8843
Name	OJ000403_16.0419.C12.o2.ts	Method	TBLASTX:Soybean
Start	3999	End	4448
GI	none	Score	50
Exons	3999..4040, 4049..4192, 4056..4190, 4305..4448		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118188	Strand	-
Start	7448	End	8843
Name	OJ000403_16.0419.C12.o2.gs	Method	GENSCAN
Start	7448	End	8843
GI	none	Score	.59
Exons	7448..7529, 7861..7930, 7954..7999, 8013..8267, 8538..8674, 8810..8843		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118189	Strand	-
Start	9889	End	10482
Name	OJ000403_16.0419.C12.o3.tw	Method	TBLASTX:Wheat
Start	9889	End	10269
GI	none	Score	304
Exons	9889..10269, 9909..10268		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118189	Strand	-
Start	9889	End	10482
Name	OJ000403_16.0419.C12.o3.tm	Method	TBLASTX:Maize
Start	10150	End	10482
GI	none	Score	223
Exons	10150..10482, 10173..10337		

Seq. No.	56484	Seq. ID	OJ000403_16.0419.C12
Gene No.	118190	Strand	-
Start	10717	End	11067
Name	OJ000403_16.0419.C12.o5.tw	Method	TBLASTX:Wheat
Start	10717	End	11067
GI	none	Score	54

Exons 10717..10764, 10806..10952, 10807..11067

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	2962
GI	4680179	Score	4972
Exons	1..2962		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o1.gs	Method	GENSCAN
Start	95	End	2965
GI	none	Score	1
Exons	95..2965		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o4.tw	Method	TBLASTX:Wheat
Start	125	End	607
GI	none	Score	549
Exons	125..607, 229..564		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o4.ts	Method	TBLASTX:Soybean
Start	161	End	475
GI	none	Score	183
Exons	161..475, 277..474		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o4.tm	Method	TBLASTX:Maize
Start	194	End	661
GI	none	Score	382
Exons	194..661, 265..564		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	548	End	943
GI	none	Score	57
Exons	548..580, 550..576, 584..943, 591..617, 596..913, 679..942		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o5.tw	Method	TBLASTX:Wheat
Start	656	End	958
GI	none	Score	405

Exons 656..958, 659..949, 676..957

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o5.tm	Method	TBLASTX:Maize
Start	677	End	1030
GI	none	Score	332
Exons	677..1030, 745..1023		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o2.tw	Method	TBLASTX:Wheat
Start	959	End	1468
GI	none	Score	619
Exons	959..1468, 967..1377		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o3.ts	Method	TBLASTX:Soybean
Start	965	End	1210
GI	none	Score	209
Exons	965..1210		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	1031	End	1391
GI	none	Score	477
Exons	1031..1384, 1033..1377, 1192..1389, 1239..1391		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o3.tw	Method	TBLASTX:Wheat
Start	1472	End	1951
GI	none	Score	587
Exons	1472..1951, 1505..1918, 1696..1950		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	1658	End	1975
GI	none	Score	89
Exons	1658..1831, 1832..1975, 1834..1974		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o2.ts	Method	TBLASTX:Soybean
Start	1739	End	1999
GI	none	Score	299
Exons	1739..1999, 1744..1998		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o3.tm	Method	TBLASTX:Maize
Start	1798	End	2089
GI	none	Score	390
Exons	1798..2085, 1799..2089		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	1958	End	2584
GI	none	Score	729
Exons	1958..2584, 1960..2583		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	2138	End	2725
GI	none	Score	226
Exons	2138..2299, 2144..2290, 2146..2292, 2297..2725, 2302..2394, 2464..2724		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o6.tw	Method	TBLASTX:Wheat
Start	2584	End	2917
GI	none	Score	366
Exons	2584..2916, 2585..2917		

Seq. No.	56485	Seq. ID	OJ000403_16.0419.C13
Gene No.	118191	Strand	+
Start	1	End	2972
Name	OJ000403_16.0419.C13.o6.tm	Method	TBLASTX:Maize
Start	2726	End	2972
GI	none	Score	206
Exons	2726..2938, 2937..2972		

Seq. No.	56486	Seq. ID	OJ000323_19.0420.C2
Gene No.	118192	Strand	+
Start	1361	End	2870
Name	OJ000323_19.0420.C2.o1.gs	Method	GENSCAN
Start	1361	End	2870
GI	none	Score	.95
Exons	1361..1444, 2693..2870		

Seq. No.	56486	Seq. ID	OJ000323_19.0420.C2
Gene No.	118193	Strand	-
Start	752	End	1263
Name	OJ000323_19.0420.C2.o1.gp	Method	AAT/GAP
Start	752	End	1263
GI	LIB3434-038-P1-K1-F1	Score	704
Exons	752..1263		

GI Descrip. '5257255/dbj|AP000364.1|AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'

Seq. No.	56487	Seq. ID	OJ000323_19.0420.C3
Gene No.	118194	Strand	+
Start	5131	End	8168
Name	OJ000323_19.0420.C3.o2.tm	Method	TBLASTX:Maize
Start	5085	End	5247
GI	none	Score	81
Exons	5085..5219, 5086..5247, 5094..5243		

Seq. No.	56487	Seq. ID	OJ000323_19.0420.C3
Gene No.	118194	Strand	+
Start	5131	End	8168
Name	OJ000323_19.0420.C3.o1.np	Method	AAT/NAP
Start	5131	End	8162
GI	7487716	Score	405
Exons	5131..5404, 7271..7394, 7428..7523, 7773..7870, 7956..8162		
GI Descrip.	hypothetical protein T5K18.170 - Arabidopsis thaliana gi 3080369 emb CAA18626.1 (AL022580) putative protein [Arabidopsis thaliana] gi 7268734 emb CAB78941.1 (AL161550) putative protein [Arabidopsis thaliana]		

Seq. No.	56487	Seq. ID	OJ000323_19.0420.C3
Gene No.	118194	Strand	+
Start	5131	End	8168
Name	OJ000323_19.0420.C3.o1.gp	Method	AAT/GAP
Start	6723	End	7125
GI	none	Score	756
Exons	6723..7125		

Seq. No.	56487	Seq. ID	OJ000323_19.0420.C3
Gene No.	118194	Strand	+
Start	5131	End	8168
Name	OJ000323_19.0420.C3.o1.tm	Method	TBLASTX:Maize
Start	7310	End	8092
GI	none	Score	81
Exons	7310..7369, 7312..7368, 7432..7527, 7433..7522, 7741..7815, 7742..7816, 7816..7872, 7829..7870, 7936..8055, 7944..8063, 7944..8048, 7949..8062, 8051..8092, 8053..8091		

Seq. No.	56487	Seq. ID	OJ000323_19.0420.C3
Gene No.	118194	Strand	+
Start	5131	End	8168
Name	OJ000323_19.0420.C3.o2.gp	Method	AAT/GAP
Start	7321	End	8168
GI	LIB3432-015-P1-K1-D7	Score	843
Exons	7321..7369, 7439..7523, 7743..7870, 7956..8168		
GI Descrip.	'3080369/emb CAA18626.1 2.0e-37 (AL022580) putative protein [Arabidopsis thaliana]'		

Seq. No.	56487	Seq. ID	OJ000323_19.0420.C3
Gene No.	118194	Strand	+
Start	5131	End	8168
Name	OJ000323_19.0420.C3.o1.tc	Method	TBLASTX:Cress
Start	7778	End	8135
GI	none	Score	58

Exons 7778..7837, 7944..8135, 7955..8131

Seq. No.	56488	Seq. ID	OJ000323_19.0420.C5
Gene No.	118195	Strand	-
Start	125	End	2946
Name	OJ000323_19.0420.C5.ol.tc	Method	TBLASTX:Cress
Start	120	End	376
GI	none	Score	96
Exons	120..224, 124..228, 125..229, 134..232, 135..236, 283..375, 309..374, 311..376		

Seq. No.	56488	Seq. ID	OJ000323_19.0420.C5
Gene No.	118195	Strand	-
Start	125	End	2946
Name	OJ000323_19.0420.C5.ol.tm	Method	TBLASTX:Maize
Start	124	End	773
GI	none	Score	137
Exons	124..228, 124..228, 125..229, 125..232, 132..236, 306..383, 307..384, 307..384, 311..385, 508..570, 516..599, 517..600, 715..771, 719..772, 720..773		

Seq. No.	56488	Seq. ID	OJ000323_19.0420.C5
Gene No.	118195	Strand	-
Start	125	End	2946
Name	OJ000323_19.0420.C5.ol.np	Method	AAT/NAP
Start	125	End	2372
GI	6957704	Score	313
Exons	125..226, 312..386, 517..597, 1440..1531, 2204..2372		
GI Descrip.	(AC021640) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56488	Seq. ID	OJ000323_19.0420.C5
Gene No.	118195	Strand	-
Start	125	End	2946
Name	OJ000323_19.0420.C5.ol.gs	Method	GENSCAN
Start	832	End	2946
GI	none	Score	.82
Exons	832..899, 1111..1187, 1440..1895, 1987..2043, 2103..2270, 2817..2946		

Seq. No.	56489	Seq. ID	OJ000323_19.0420.C6
Gene No.	118196	Strand	+
Start	561	End	1116
Name	OJ000323_19.0420.C6.ol.gs	Method	GENSCAN
Start	561	End	1116
GI	none	Score	.64
Exons	561..676, 1096..1116		

Seq. No.	56490	Seq. ID	OJ000323_19.0420.C7
Gene No.	118197	Strand	+
Start	2621	End	2923
Name	OJ000323_19.0420.C7.ol.gs	Method	GENSCAN
Start	2621	End	2923
GI	none	Score	.79
Exons	2621..2923		

Seq. No.	56490	Seq. ID	OJ000323_19.0420.C7
Gene No.	118198	Strand	-

Start	1131	End	1238
Name	OJ000323_19.0420.C7.o1.np	Method	AAT/NAP
Start	1131	End	1238
GI	5852093	Score	80
Exons	1131..1238		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	56490	Seq. ID	OJ000323_19.0420.C7
Gene No.	118199	Strand	-
Start	2600	End	2944
Name	OJ000323_19.0420.C7.o2.np	Method	AAT/NAP
Start	2600	End	2944
GI	7489142	Score	283
Exons	2600..2944		
GI Descrip.	hsr201 protein, hypersensitivity-related - common tobacco gi 1171577 emb CAA64636.1 (X95343) hypersensitivity-related gene [Nicotiana tabacum]		

Seq. No.	56490	Seq. ID	OJ000323_19.0420.C7
Gene No.	118199	Strand	-
Start	2600	End	2944
Name	OJ000323_19.0420.C7.o1.ts	Method	TBLASTX:Soybean
Start	2657	End	2944
GI	none	Score	68
Exons	2657..2944, 2679..2747, 2826..2939		

Seq. No.	56491	Seq. ID	OJ000323_19.0420.C8
Gene No.	118200	Strand	+
Start	1	End	1375
Name	OJ000323_19.0420.C8.o2.np	Method	AAT/NAP
Start	1	End	1375
GI	7510076	Score	101
Exons	1..97, 989..1375		
GI Descrip.	hypothetical protein Y50E8A.i - Caenorhabditis elegans		

Seq. No.	56491	Seq. ID	OJ000323_19.0420.C8
Gene No.	118201	Strand	-
Start	1	End	587
Name	OJ000323_19.0420.C8.o1.np	Method	AAT/NAP
Start	1	End	527
GI	7489142	Score	427
Exons	1..527		
GI Descrip.	hsr201 protein, hypersensitivity-related - common tobacco gi 1171577 emb CAA64636.1 (X95343) hypersensitivity-related gene [Nicotiana tabacum]		

Seq. No.	56491	Seq. ID	OJ000323_19.0420.C8
Gene No.	118201	Strand	-
Start	1	End	587
Name	OJ000323_19.0420.C8.o1.ts	Method	TBLASTX:Soybean
Start	6	End	587
GI	none	Score	192
Exons	6..116, 105..587, 106..525		

Seq. No.	56491	Seq. ID	OJ000323_19.0420.C8
Gene No.	118201	Strand	-
Start	1	End	587

Name	OJ000323_19.0420.C8.o1.gs	Method	GENSCAN
Start	69	End	521
GI	none	Score	.88
Exons	69..521		

Seq. No.	56491	Seq. ID	OJ000323_19.0420.C8
Gene No.	118201	Strand	-
Start	1	End	587
Name	OJ000323_19.0420.C8.o1.gp	Method	AAT/GAP
Start	113	End	578
GI	27110_1.R1084	Score	914
Exons	113..578		
GI Descrip.	'1171577/emb CAA64636 9.0e-35 (X95343) hypersensitivity-related gene [Nicotiana tabacum]'		

Seq. No.	56491	Seq. ID	OJ000323_19.0420.C8
Gene No.	118201	Strand	-
Start	1	End	587
Name	OJ000323_19.0420.C8.o1.tm	Method	TBLASTX:Maize
Start	216	End	440
GI	none	Score	62
Exons	216..440, 220..369		

Seq. No.	56491	Seq. ID	OJ000323_19.0420.C8
Gene No.	118201	Strand	-
Start	1	End	587
Name	OJ000323_19.0420.C8.o1.tw	Method	TBLASTX:Wheat
Start	273	End	504
GI	none	Score	96
Exons	273..341, 336..503, 382..504		

Seq. No.	56492	Seq. ID	OJ000323_19.0420.C9
Gene No.	118202	Strand	+
Start	932	End	5507
Name	OJ000323_19.0420.C9.o1.np	Method	AAT/NAP
Start	932	End	5498
GI	7489723	Score	754
Exons	932..959, 3256..4187, 4761..4913, 5033..5104, 5391..5498		
GI Descrip.	crp1 protein - maize gi 3289002 gb AAC25599.1 (AF073522) CRP1 [Zea mays]		

Seq. No.	56492	Seq. ID	OJ000323_19.0420.C9
Gene No.	118202	Strand	+
Start	932	End	5507
Name	OJ000323_19.0420.C9.o2.gs	Method	GENSCAN
Start	3051	End	5507
GI	none	Score	.83
Exons	3051..4187, 4761..4913, 5391..5507		

Seq. No.	56492	Seq. ID	OJ000323_19.0420.C9
Gene No.	118202	Strand	+
Start	932	End	5507
Name	OJ000323_19.0420.C9.o1.tm	Method	TBLASTX:Maize
Start	3405	End	5116
GI	none	Score	90
Exons	3405..3644, 3468..3893, 3582..3992, 3678..4100, 3750..4097, 3761..4099, 3804..4187, 5030..5116		

Seq. No.	56492	Seq. ID	OJ000323_19.0420.C9
Gene No.	118202	Strand	+
Start	932	End	5507
Name	OJ000323_19.0420.C9.ol.ts	Method	TBLASTX:Soybean
Start	3474	End	4874
GI	none	Score	131
Exons	3474..3842, 3501..4052, 3746..3997, 3795..4031, 3816..4184, 4740..4874		

Seq. No.	56492	Seq. ID	OJ000323_19.0420.C9
Gene No.	118202	Strand	+
Start	932	End	5507
Name	OJ000323_19.0420.C9.ol.tc	Method	TBLASTX:Cress
Start	3504	End	4883
GI	none	Score	112
Exons	3504..3854, 3630..4004, 3746..4006, 3810..4187, 4740..4883		

Seq. No.	56493	Seq. ID	OJ000323_19.0420.C11
Gene No.	118203	Strand	+
Start	681	End	1506
Name	OJ000323_19.0420.C11.ol.gs	Method	GENSCAN
Start	681	End	1506
GI	none	Score	.6
Exons	681..1082, 1407..1449, 1493..1506		

Seq. No.	56493	Seq. ID	OJ000323_19.0420.C11
Gene No.	118204	Strand	-
Start	1816	End	3490
Name	OJ000323_19.0420.C11.ol.gp	Method	AAT/GAP
Start	1678	End	3138
GI	5002953	Score	1272
Exons	1678..1859, 2339..2748, 3007..3138		
GI Descrip.	4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	56493	Seq. ID	OJ000323_19.0420.C11
Gene No.	118204	Strand	-
Start	1816	End	3490
Name	OJ000323_19.0420.C11.o2.gs	Method	GENSCAN
Start	1816	End	3447
GI	none	Score	.94
Exons	1816..3447		

Seq. No.	56493	Seq. ID	OJ000323_19.0420.C11
Gene No.	118204	Strand	-
Start	1816	End	3490
Name	OJ000323_19.0420.C11.ol.tw	Method	TBLASTX:Wheat
Start	1903	End	3123
GI	none	Score	61
Exons	1903..1995, 1996..2100, 2024..2101, 2125..2166, 2125..2163, 2170..2217, 2206..2397, 2222..2362, 2401..2562, 2405..2545, 2581..3123, 2633..3079		

Seq. No.	56493	Seq. ID	OJ000323_19.0420.C11
Gene No.	118204	Strand	-
Start	1816	End	3490

Name	OJ000323_19.0420.C11.o1.np	Method	AAT/NAP
Start	2291	End	3490
GI	6742729	Score	964
Exons	2291..3490		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	56493	Seq. ID	OJ000323_19.0420.C11
Gene No.	118204	Strand	-
Start	1816	End	3490
Name	OJ000323_19.0420.C11.o1.tc	Method	TBLASTX:Cress
Start	2410	End	2836
GI	none	Score	68
Exons	2410..2562, 2423..2545, 2581..2832, 2633..2836		

Seq. No.	56493	Seq. ID	OJ000323_19.0420.C11
Gene No.	118204	Strand	-
Start	1816	End	3490
Name	OJ000323_19.0420.C11.o1.tm	Method	TBLASTX:Maize
Start	2734	End	3219
GI	none	Score	89
Exons	2734..3219, 2741..2890, 3026..3202		

Seq. No.	56493	Seq. ID	OJ000323_19.0420.C11
Gene No.	118204	Strand	-
Start	1816	End	3490
Name	OJ000323_19.0420.C11.o2.tw	Method	TBLASTX:Wheat
Start	3127	End	3483
GI	none	Score	66
Exons	3127..3210, 3128..3211, 3247..3483, 3248..3448		

Seq. No.	56493	Seq. ID	OJ000323_19.0420.C11
Gene No.	118204	Strand	-
Start	1816	End	3490
Name	OJ000323_19.0420.C11.o2.tm	Method	TBLASTX:Maize
Start	3256	End	3471
GI	none	Score	92
Exons	3256..3318, 3325..3471, 3335..3442		

Seq. No.	56494	Seq. ID	OJ000323_19.0420.C14
Gene No.	118205	Strand	+
Start	341	End	1454
Name	OJ000323_19.0420.C14.o1.gs	Method	GENSCAN
Start	341	End	1374
GI	none	Score	.74
Exons	341..428, 965..1082, 1189..1374		

Seq. No.	56494	Seq. ID	OJ000323_19.0420.C14
Gene No.	118205	Strand	+
Start	341	End	1454
Name	OJ000323_19.0420.C14.o1.gp	Method	AAT/GAP
Start	961	End	1454
GI	956_1.R1084	Score	692
Exons	961..1454		

GI Descrip. '5815410/gb|AAD52659.1|AF177392_1 0.0e+00 (AF177392) blast and wounding induced mitogen-activated protein kinase [Oryza sativa]'

Seq. No.	56494	Seq. ID	OJ000323_19.0420.C14
Gene No.	118205	Strand	+
Start	341	End	1454
Name	OJ000323_19.0420.C14.ol.np	Method	AAT/NAP
Start	977	End	1454
GI	5815410	Score	545
Exons	977..1454		
GI Descrip.	(AF177392) blast and wounding induced mitogen-activated protein kinase [Oryza sativa]		

Seq. No.	56494	Seq. ID	OJ000323_19.0420.C14
Gene No.	118205	Strand	+
Start	341	End	1454
Name	OJ000323_19.0420.C14.ol.tm	Method	TBLASTX:Maize
Start	997	End	1382
GI	none	Score	54
Exons	997..1047, 998..1039, 1000..1053, 1053..1109, 1054..1110, 1054..1110, 1100..1381, 1101..1382		

Seq. No.	56494	Seq. ID	OJ000323_19.0420.C14
Gene No.	118205	Strand	+
Start	341	End	1454
Name	OJ000323_19.0420.C14.ol.ts	Method	TBLASTX:Soybean
Start	997	End	1382
GI	none	Score	73
Exons	997..1053, 1000..1053, 1054..1110, 1063..1110, 1100..1366, 1101..1382, 1110..1379		

Seq. No.	56494	Seq. ID	OJ000323_19.0420.C14
Gene No.	118205	Strand	+
Start	341	End	1454
Name	OJ000323_19.0420.C14.ol.tc	Method	TBLASTX:Cress
Start	1000	End	1382
GI	none	Score	61
Exons	1000..1059, 1054..1110, 1100..1381, 1101..1382		

Seq. No.	56494	Seq. ID	OJ000323_19.0420.C14
Gene No.	118205	Strand	+
Start	341	End	1454
Name	OJ000323_19.0420.C14.ol.tw	Method	TBLASTX:Wheat
Start	1151	End	1377
GI	none	Score	330
Exons	1151..1366, 1152..1370, 1155..1376, 1234..1377		

Seq. No.	56495	Seq. ID	OJ000323_19.0420.C15
Gene No.	118206	Strand	+
Start	183	End	494
Name	OJ000323_19.0420.C15.ol.gs	Method	GENSCAN
Start	183	End	494
GI	none	Score	.99
Exons	183..494		

Seq. No.	56496	Seq. ID	OJ000323_19.0420.C16
Gene No.	118207	Strand	+
Start	1170	End	1348
Name	OJ000323_19.0420.C16.ol.gp	Method	AAT/GAP
Start	1170	End	1348

GI none
Exons 1170..1348

Score 331

Seq. No. 56496
Gene No. 118208
Start 1414
Name OJ000323_19.0420.C16.o1.gs
Start 1414
GI none
Exons 1414..2475

Seq. ID OJ000323_19.0420.C16
Strand -
End 4637
Method GENSCAN
End 2475
Score 1

Seq. No. 56496
Gene No. 118208
Start 1414
Name OJ000323_19.0420.C16.o1.np
Start 1420
GI 7487544
Exons 1420..2322, 4270..4408

Seq. ID OJ000323_19.0420.C16
Strand -
End 4637
Method AAT/NAP
End 4408
Score 895

GI Descrip. hypothetical protein T2L5.1 - Arabidopsis thaliana
gi|3695389|gb|AAC62791.1| (AF096371) contains similarity to
D-isomer specific 2-hydroxyacid dehydrogenases (Pfam:
2-Hacid_DH.hmm, score: 19.11) [Arabidopsis thaliana]

Seq. No. 56496
Gene No. 118208
Start 1414
Name OJ000323_19.0420.C16.o1.tw
Start 1462
GI none
Exons 1462..1767, 1463..1768

Seq. ID OJ000323_19.0420.C16
Strand -
End 4637
Method TBLASTX:Wheat
End 1768
Score 344

Seq. No. 56496
Gene No. 118208
Start 1414
Name OJ000323_19.0420.C16.o2.tm
Start 1468
GI none
Exons 1468..1629, 1469..1630

Seq. ID OJ000323_19.0420.C16
Strand -
End 4637
Method TBLASTX:Maize
End 1630
Score 220

Seq. No. 56496
Gene No. 118208
Start 1414
Name OJ000323_19.0420.C16.o2.ts
Start 1540
GI none
Exons 1540..1818, 1541..1807

Seq. ID OJ000323_19.0420.C16
Strand -
End 4637
Method TBLASTX:Soybean
End 1818
Score 138

Seq. No. 56496
Gene No. 118208
Start 1414
Name OJ000323_19.0420.C16.o1.tc
Start 1553
GI none
Exons 1553..1801, 1555..1842, 1825..1884, 1882..1929, 1889..1930

Seq. ID OJ000323_19.0420.C16
Strand -
End 4637
Method TBLASTX:Cress
End 1930
Score 142

Seq. No. 56496
Gene No. 118208

Seq. ID OJ000323_19.0420.C16
Strand -

Start	1414	End	4637
Name	OJ000323_19.0420.C16.o1.tm	Method	TBLASTX:Maize
Start	1684	End	2133
GI	none	Score	209
Exons	1684..1743, 1756..2133, 1757..2089		

Seq. No.	56496	Seq. ID	OJ000323_19.0420.C16
Gene No.	118208	Strand	-
Start	1414	End	4637
Name	OJ000323_19.0420.C16.o1.ts	Method	TBLASTX:Soybean
Start	1867	End	2253
GI	none	Score	102
Exons	1867..2253, 1871..2077, 2174..2245		

Seq. No.	56496	Seq. ID	OJ000323_19.0420.C16
Gene No.	118208	Strand	-
Start	1414	End	4637
Name	OJ000323_19.0420.C16.o2.tc	Method	TBLASTX:Cress
Start	1987	End	2310
GI	none	Score	68
Exons	1987..2310, 2180..2245		

Seq. No.	56496	Seq. ID	OJ000323_19.0420.C16
Gene No.	118208	Strand	-
Start	1414	End	4637
Name	OJ000323_19.0420.C16.o2.gs	Method	GENSCAN
Start	3691	End	4609
GI	none	Score	.82
Exons	3691..4609		

Seq. No.	56496	Seq. ID	OJ000323_19.0420.C16
Gene No.	118208	Strand	-
Start	1414	End	4637
Name	OJ000323_19.0420.C16.o3.tm	Method	TBLASTX:Maize
Start	3702	End	4637
GI	none	Score	46
Exons	3702..3836, 3708..3800, 3767..3850, 3773..3904, 3778..3927, 3789..4031, 3849..4031, 3877..3933, 3882..4007, 3899..4066, 3900..4031, 3900..4007, 3933..3992, 4021..4110, 4021..4107, 4040..4111, 4060..4101, 4060..4110, 4076..4111, 4076..4138, 4126..4200, 4127..4198, 4221..4274, 4221..4268, 4223..4270, 4308..4385, 4389..4433, 4416..4481, 4416..4535, 4471..4536, 4527..4637, 4545..4637		

Seq. No.	56496	Seq. ID	OJ000323_19.0420.C16
Gene No.	118208	Strand	-
Start	1414	End	4637
Name	OJ000323_19.0420.C16.o2.gp	Method	AAT/GAP
Start	3818	End	4273
GI	2431248	Score	878
Exons	3818..4273		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118209	Strand	+
Start	1088	End	4151
Name	OJ000323_19.0420.C17.o2.np	Method	AAT/NAP
Start	1088	End	4076

GI 7487544 Score 875
 Exons 1088..1180, 3247..4076
 GI Descrip. hypothetical protein T2L5.1 - Arabidopsis thaliana
 gi|3695389|gb|AAC62791.1| (AF096371) contains similarity to
 D-isomer specific 2-hydroxyacid dehydrogenases (Pfam:
 2-Hacid_DH.hmm, score: 19.11) [Arabidopsis thaliana]

Seq. No. 56497 Seq. ID OJ000323_19.0420.C17
 Gene No. 118209 Strand +
 Start 1088 End 4151
 Name OJ000323_19.0420.C17.o2.gp Method AAT/GAP
 Start 2954 End 3319
 GI 428623 Score 728
 Exons 2954..3319

Seq. No. 56497 Seq. ID OJ000323_19.0420.C17
 Gene No. 118209 Strand +
 Start 1088 End 4151
 Name OJ000323_19.0420.C17.o2.gs Method GENSCAN
 Start 2997 End 4151
 GI none Score .99
 Exons 2997..4151

Seq. No. 56497 Seq. ID OJ000323_19.0420.C17
 Gene No. 118210 Strand +
 Start 4711 End 7433
 Name OJ000323_19.0420.C17.o3.gp Method AAT/GAP
 Start 4675 End 5261
 GI none Score 949
 Exons 4675..4905, 4983..5261

Seq. No. 56497 Seq. ID OJ000323_19.0420.C17
 Gene No. 118210 Strand +
 Start 4711 End 7433
 Name OJ000323_19.0420.C17.o3.gs Method GENSCAN
 Start 4711 End 6652
 GI none Score .95
 Exons 4711..4905, 4983..5296, 5435..5465, 5954..6128, 6221..6348,
 6539..6652

Seq. No. 56497 Seq. ID OJ000323_19.0420.C17
 Gene No. 118210 Strand +
 Start 4711 End 7433
 Name OJ000323_19.0420.C17.o4.gp Method AAT/GAP
 Start 6043 End 7433
 GI none Score 981
 Exons 6043..6128, 6221..6348, 6539..6599, 7122..7433

Seq. No. 56497 Seq. ID OJ000323_19.0420.C17
 Gene No. 118211 Strand -
 Start 1 End 2706
 Name OJ000323_19.0420.C17.o1.np Method AAT/NAP
 Start 1 End 2706
 GI 7487134 Score 701
 Exons 1..25, 246..447, 1406..1528, 1660..1811, 2406..2706
 GI Descrip. hypothetical protein T18B16.160 - Arabidopsis thaliana
 gi|2828294|emb|CAA16708.1| (AL021687) putative protein

[Arabidopsis thaliana] gi|7268714|emb|CAB78921.1| (AL161550)
putative protein [Arabidopsis thaliana]

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118211	Strand	-
Start	1	End	2706
Name	OJ000323_19.0420.C17.o3.tm	Method	TBLASTX:Maize
Start	213	End	1778
GI	none	Score	251
Exons	213..449, 246..485, 265..453, 1396..1524, 1397..1495, 1404..1517, 1405..1524, 1698..1775, 1698..1778		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118211	Strand	-
Start	1	End	2706
Name	OJ000323_19.0420.C17.o5.ts	Method	TBLASTX:Soybean
Start	312	End	1485
GI	none	Score	174
Exons	312..449, 319..450, 326..457, 1396..1485, 1397..1483		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118211	Strand	-
Start	1	End	2706
Name	OJ000323_19.0420.C17.o2.tc	Method	TBLASTX:Cress
Start	393	End	2627
GI	none	Score	62
Exons	393..449, 394..450, 1396..1485, 1397..1483, 1713..1808, 1722..1820, 2403..2627, 2407..2592		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118211	Strand	-
Start	1	End	2706
Name	OJ000323_19.0420.C17.o1.gs	Method	GENSCAN
Start	755	End	2690
GI	none	Score	.6
Exons	755..962, 1406..1525, 1714..1811, 2406..2690		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118211	Strand	-
Start	1	End	2706
Name	OJ000323_19.0420.C17.o1.gp	Method	AAT/GAP
Start	1660	End	2678
GI	uC-osflM202123h02b1	Score	787
Exons	1660..1811, 2406..2678		
GI Descrip.	'2828294/emb CAA16708.1 5.0e-43 (AL021687) putative protein [Arabidopsis thaliana]'		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118211	Strand	-
Start	1	End	2706
Name	OJ000323_19.0420.C17.o3.ts	Method	TBLASTX:Soybean
Start	2403	End	2627
GI	none	Score	273
Exons	2403..2627, 2404..2592		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118212	Strand	

Start	3249	End	4034
Name	OJ000323_19.0420.C17.o2.ts	Method	TBLASTX:Soybean
Start	3249	End	3629
GI	none	Score	381
Exons	3249..3629, 3263..3322, 3419..3628		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118212	Strand	
Start	3249	End	4034
Name	OJ000323_19.0420.C17.o4.tc	Method	TBLASTX:Cress
Start	3249	End	3509
GI	none	Score	288
Exons	3249..3509, 3263..3325		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118212	Strand	
Start	3249	End	4034
Name	OJ000323_19.0420.C17.o2.tm	Method	TBLASTX:Maize
Start	3363	End	3809
GI	none	Score	383
Exons	3363..3740, 3383..3670, 3747..3809		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118212	Strand	
Start	3249	End	4034
Name	OJ000323_19.0420.C17.o1.tc	Method	TBLASTX:Cress
Start	3570	End	3941
GI	none	Score	83
Exons	3570..3632, 3612..3671, 3654..3941, 3725..3931		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118212	Strand	
Start	3249	End	4034
Name	OJ000323_19.0420.C17.o4.ts	Method	TBLASTX:Soybean
Start	3678	End	3956
GI	none	Score	335
Exons	3678..3956, 3785..3931		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118212	Strand	
Start	3249	End	4034
Name	OJ000323_19.0420.C17.o1.tw	Method	TBLASTX:Wheat
Start	3729	End	4034
GI	none	Score	466
Exons	3729..4034, 3731..4033		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118212	Strand	
Start	3249	End	4034
Name	OJ000323_19.0420.C17.o4.tm	Method	TBLASTX:Maize
Start	3866	End	4022
GI	none	Score	255
Exons	3866..4021, 3867..4022		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118213	Strand	
Start	4849	End	7193

Name	OJ000323_19.0420.C17.o1.tm	Method	TBLASTX:Maize
Start	4849	End	6284
GI	none	Score	72
Exons	4849..4899, 4851..4901, 5017..5070, 5103..5297, 5138..5299, 5144..5299, 5392..5460, 5393..5461, 5394..5465, 5394..5465, 5404..5466, 5709..5861, 5743..5859, 5951..6124, 5953..6123, 6179..6280, 6193..6282, 6216..6284, 6243..6284		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118213	Strand	
Start	4849	End	7193
Name	OJ000323_19.0420.C17.o5.tc	Method	TBLASTX:Cress
Start	5111	End	5462
GI	none	Score	187
Exons	5111..5296, 5142..5294, 5381..5413, 5388..5417, 5420..5461, 5427..5462		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118213	Strand	
Start	4849	End	7193
Name	OJ000323_19.0420.C17.o1.ts	Method	TBLASTX:Soybean
Start	5139	End	7193
GI	none	Score	191
Exons	5139..5297, 5150..5299, 5393..5410, 5394..5414, 5411..5461, 5427..5465, 5743..5844, 5743..5838, 5748..5843, 5951..6127, 5951..6127, 5959..6150, 6219..6299, 6220..6324, 6538..6594, 6545..6622, 6545..6598, 7100..7192, 7121..7192, 7122..7193		

Seq. No.	56497	Seq. ID	OJ000323_19.0420.C17
Gene No.	118213	Strand	
Start	4849	End	7193
Name	OJ000323_19.0420.C17.o3.tc	Method	TBLASTX:Cress
Start	5788	End	7192
GI	none	Score	91
Exons	5788..5862, 5790..5852, 5959..6150, 5960..6127, 6220..6312, 7127..7192		

Seq. No.	56498	Seq. ID	OJ000323_19.0420.C18
Gene No.	118214	Strand	+
Start	233	End	7215
Name	OJ000323_19.0420.C18.o1.gs	Method	GENSCAN
Start	233	End	7215
GI	none	Score	.54
Exons	233..438, 571..832, 867..949, 1055..1793, 1999..2960, 3445..3518, 3594..3748, 3824..3960, 4046..4268, 4341..4459, 4540..4838, 4943..5204, 5297..5404, 5451..5552, 5820..6189, 6253..6506, 6895..7215		

Seq. No.	56498	Seq. ID	OJ000323_19.0420.C18
Gene No.	118214	Strand	+
Start	233	End	7215
Name	OJ000323_19.0420.C18.o1.np	Method	AAT/NAP
Start	322	End	7215
GI	7228438	Score	3307
Exons	322..2306, 3865..3960, 4046..4459, 4540..4838, 4943..5204, 5297..5447, 6794..7215		

GI Descrip. (AP001366) EST C28952(C62945) corresponds to a region of the

predicted gene.; Similar to maize transposon MuDR mudrA protein
isolog (AC003981) [Oryza sativa]

Seq. No.	56498	Seq. ID	OJ000323_19.0420.C18
Gene No.	118214	Strand	+
Start	233	End	7215
Name	OJ000323_19.0420.C18.o1.tm	Method	TBLASTX:Maize
Start	1271	End	1849
GI	none	Score	370
Exons	1271..1738, 1276..1398, 1450..1749, 1796..1849		

Seq. No.	56498	Seq. ID	OJ000323_19.0420.C18
Gene No.	118214	Strand	+
Start	233	End	7215
Name	OJ000323_19.0420.C18.o1.tw	Method	TBLASTX:Wheat
Start	1565	End	1943
GI	none	Score	194
Exons	1565..1714, 1567..1719, 1568..1744, 1768..1830, 1769..1906, 1791..1919, 1884..1943		

Seq. No.	56498	Seq. ID	OJ000323_19.0420.C18
Gene No.	118214	Strand	+
Start	233	End	7215
Name	OJ000323_19.0420.C18.o1.gp	Method	AAT/GAP
Start	3633	End	5882
GI	LIB3433-020-P1-K1-A6	Score	761
Exons	3633..3675, 5497..5882		
GI Descrip.	'5670155/gb AF161269.1 AF161269 2.0e-35 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	56499	Seq. ID	OJ000323_19.0420.C19
Gene No.	118215	Strand	-
Start	1	End	2156
Name	OJ000323_19.0420.C19.o1.np	Method	AAT/NAP
Start	1	End	2156
GI	7485859	Score	871
Exons	1..60, 614..2156		
GI Descrip.	hypothetical protein F20D10.300 - Arabidopsis thaliana gi 4467124 emb CAB37558.1 (AL035538) hypothetical protein [Arabidopsis thaliana] gi 7270802 emb CAB80483.1 (AL161593) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56499	Seq. ID	OJ000323_19.0420.C19
Gene No.	118215	Strand	-
Start	1	End	2156
Name	OJ000323_19.0420.C19.o1.gs	Method	GENSCAN
Start	552	End	1937
GI	none	Score	.74
Exons	552..1937		

Seq. No.	56499	Seq. ID	OJ000323_19.0420.C19
Gene No.	118215	Strand	-
Start	1	End	2156
Name	OJ000323_19.0420.C19.o2.tm	Method	TBLASTX:Maize
Start	633	End	1082
GI	none	Score	117
Exons	633..746, 819..848, 854..919, 921..1082		

Seq. No.	56499	Seq. ID	OJ000323_19.0420.C19
Gene No.	118215	Strand	-
Start	1	End	2156
Name	OJ000323_19.0420.C19.ol.ts	Method	TBLASTX:Soybean
Start	1137	End	1869
GI	none	Score	223
Exons	1137..1280, 1302..1868, 1342..1869, 1702..1869		

Seq. No.	56499	Seq. ID	OJ000323_19.0420.C19
Gene No.	118215	Strand	-
Start	1	End	2156
Name	OJ000323_19.0420.C19.ol.tm	Method	TBLASTX:Maize
Start	1191	End	1821
GI	none	Score	49
Exons	1191..1493, 1368..1448, 1521..1820, 1567..1821		

Seq. No.	56499	Seq. ID	OJ000323_19.0420.C19
Gene No.	118215	Strand	-
Start	1	End	2156
Name	OJ000323_19.0420.C19.ol.tw	Method	TBLASTX:Wheat
Start	1266	End	1691
GI	none	Score	89
Exons	1266..1691, 1392..1682		

Seq. No.	56499	Seq. ID	OJ000323_19.0420.C19
Gene No.	118215	Strand	-
Start	1	End	2156
Name	OJ000323_19.0420.C19.ol.tc	Method	TBLASTX:Cress
Start	1618	End	1961
GI	none	Score	58
Exons	1618..1839, 1620..1961		

Seq. No.	56500	Seq. ID	OJ000323_19.0420.C20
Gene No.	118216	Strand	+
Start	1257	End	1361
Name	OJ000323_19.0420.C20.ol.gs	Method	GENSCAN
Start	1257	End	1361
GI	none	Score	.56
Exons	1257..1361		

Seq. No.	56501	Seq. ID	OJ000323_19.0420.C25
Gene No.	118217	Strand	+
Start	3734	End	4754
Name	OJ000323_19.0420.C25.ol.np	Method	AAT/NAP
Start	3734	End	4754
GI	6539570	Score	125
Exons	3734..3928, 4184..4250, 4734..4754		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	56501	Seq. ID	OJ000323_19.0420.C25
Gene No.	118218	Strand	-
Start	1660	End	2251
Name	OJ000323_19.0420.C25.ol.gs	Method	GENSCAN
Start	1660	End	2251
GI	none	Score	.97
Exons	1660..2135, 2173..2251		

Seq. No.	56501	Seq. ID	OJ000323_19.0420.C25
Gene No.	118219	Strand	-
Start	3845	End	4057
Name	OJ000323_19.0420.C25.o2.gs	Method	GENSCAN
Start	3845	End	4057
GI	none	Score	.85
Exons	3845..4057		

Seq. No.	56501	Seq. ID	OJ000323_19.0420.C25
Gene No.	118220	Strand	-
Start	4396	End	4721
Name	OJ000323_19.0420.C25.o3.gs	Method	GENSCAN
Start	4396	End	4721
GI	none	Score	.96
Exons	4396..4537, 4591..4721		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118221	Strand	+
Start	415	End	1034
Name	OJ000323_19.0420.C26.o1.gs	Method	GENSCAN
Start	415	End	1034
GI	none	Score	.83
Exons	415..423, 580..672, 735..1034		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118222	Strand	+
Start	1894	End	4204
Name	OJ000323_19.0420.C26.o2.gs	Method	GENSCAN
Start	1894	End	4036
GI	none	Score	.61
Exons	1894..2294, 3024..3204, 3519..3595, 3970..4036		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118222	Strand	+
Start	1894	End	4204
Name	OJ000323_19.0420.C26.o2.np	Method	AAT/NAP
Start	1894	End	3800
GI	6225938	Score	694
Exons	1894..2246, 3024..3204, 3762..3800		
GI Descrip.	RER1A PROTEIN (ATRER1A) gi 2865175 dbj BAA24803 (AB010945) AtRer1A [Arabidopsis thaliana] gi 4914434 emb CAB43637.1 (AL050351) AtRer1A [Arabidopsis thaliana]		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118222	Strand	+
Start	1894	End	4204
Name	OJ000323_19.0420.C26.o1.gp	Method	AAT/GAP
Start	2169	End	4204
GI	15354_2.R1084	Score	1225
Exons	2169..2246, 3024..3204, 3762..4204		
GI Descrip.	'2865175/dbj BAA24803 1.0e-40 (AB010945) AtRer1A [Arabidopsis thaliana] >gi_4914434_emb_CAB43637.1_ (AL050351) AtRer1A [Arabidopsis thaliana]'		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118223	Strand	+

Start	4850	End	6712
Name	OJ000323_19.0420.C26.o3.gs	Method	GENSCAN
Start	4850	End	6712
GI	none	Score	.96
Exons	4850..4930, 5133..5211, 5407..5454, 5548..5571, 6073..6255, 6370..6445, 6577..6712		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118224	Strand	+
Start	6650	End	6939
Name	OJ000323_19.0420.C26.o2.gp	Method	AAT/GAP
Start	6650	End	6939
GI	5004640	Score	536
Exons	6650..6939		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118225	Strand	+
Start	7773	End	10048
Name	OJ000323_19.0420.C26.o3.gp	Method	AAT/GAP
Start	7596	End	10048
GI	265 2.R1084	Score	1948
Exons	7596..7838, 8088..8166, 8563..8610, 8704..8727, 9194..9376, 9485..9560, 9660..10048		
GI Descrip.	'3420055 1.0e-79 (AC004680) cyclophilin [Arabidopsis thaliana]'		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118225	Strand	+
Start	7773	End	10048
Name	OJ000323_19.0420.C26.o4.gs	Method	GENSCAN
Start	7773	End	9798
GI	none	Score	.99
Exons	7773..7838, 8088..8166, 8563..8610, 8704..8727, 9194..9376, 9485..9560, 9660..9798		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118225	Strand	+
Start	7773	End	10048
Name	OJ000323_19.0420.C26.o3.np	Method	AAT/NAP
Start	8031	End	9795
GI	7437323	Score	682
Exons	8031..8166, 8563..8610, 8704..8727, 9194..9376, 9485..9560, 9660..9795		
GI Descrip.	peptidylprolyl isomerase (EC 5.2.1.8) F23F1.12 - Arabidopsis thaliana gi 3420055 gb AAC31856.1 (AC004680) cyclophilin [Arabidopsis thaliana]		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118226	Strand	+
Start	10723	End	10967
Name	OJ000323_19.0420.C26.o4.np	Method	AAT/NAP
Start	10723	End	10967
GI	6728983	Score	321
Exons	10723..10967		
GI Descrip.	(AC018363) unknown protein [Arabidopsis thaliana]		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118227	Strand	-

Start	10632	End	10967
Name	OJ000323_19.0420.C26.o3.tc	Method	TBLASTX:Cress
Start	1891	End	3204
GI	none	Score	129
Exons	1891..2169, 2173..2256, 2187..2249, 3012..3203, 3013..3204, 3013..3204		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118227	Strand	-
Start	10632	End	10967
Name	OJ000323_19.0420.C26.o3.ts	Method	TBLASTX:Soybean
Start	1911	End	3204
GI	none	Score	128
Exons	1911..2084, 1939..2187, 2176..2253, 2199..2249, 3012..3203, 3013..3204, 3019..3204		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118227	Strand	-
Start	10632	End	10967
Name	OJ000323_19.0420.C26.o4.tm	Method	TBLASTX:Maize
Start	1911	End	2256
GI	none	Score	177
Exons	1911..2087, 1942..2160, 2161..2256, 2187..2255		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118227	Strand	-
Start	10632	End	10967
Name	OJ000323_19.0420.C26.o3.tm	Method	TBLASTX:Maize
Start	2970	End	3815
GI	none	Score	292
Exons	2970..3203, 3013..3204, 3018..3203, 3019..3204, 3750..3815, 3758..3805		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118227	Strand	-
Start	10632	End	10967
Name	OJ000323_19.0420.C26.o1.ts	Method	TBLASTX:Soybean
Start	5130	End	9800
GI	none	Score	83
Exons	5130..5225, 5405..5452, 5406..5453, 5544..5573, 5544..5570, 6069..6263, 6069..6257, 6101..6259, 6359..6433, 6363..6434, 6573..6668, 6576..6668, 6577..6678, 6577..6705, 6578..6706, 8076..8168, 8087..8167, 8087..8170, 8088..8168, 8562..8609, 8686..8727, 9186..9377, 9190..9378, 9190..9378, 9472..9561, 9483..9560, 9637..9798, 9637..9792, 9660..9800		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118227	Strand	-
Start	10632	End	10967
Name	OJ000323_19.0420.C26.o2.tw	Method	TBLASTX:Wheat
Start	5172	End	9789
GI	none	Score	57
Exons	5172..5225, 5406..5450, 5547..5573, 6069..6263, 6101..6256, 6369..6434, 6369..6431, 6548..6730, 6577..6699, 8562..8606, 8703..8729, 9186..9293, 9190..9378, 9193..9369, 9333..9383, 9472..9561, 9483..9560, 9651..9782, 9661..9789		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118227	Strand	-
Start	10632	End	10967
Name	OJ000323_19.0420.C26.o1.tc	Method	TBLASTX:Cress
Start	5406	End	9789
GI	none	Score	45
Exons	5406..5453, 5544..5573, 6069..6263, 6101..6256, 6359..6436, 6363..6437, 6548..6712, 6556..6651, 8127..8201, 9190..9378, 9193..9372, 9330..9383, 9472..9561, 9483..9560, 9660..9782, 9661..9789		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118227	Strand	-
Start	10632	End	10967
Name	OJ000323_19.0420.C26.o1.tm	Method	TBLASTX:Maize
Start	6064	End	9831
GI	none	Score	77
Exons	6064..6168, 6064..6120, 6069..6263, 6104..6256, 6223..6264, 6359..6433, 6359..6433, 6360..6446, 6361..6468, 6363..6434, 6573..6704, 6577..6705, 6578..6706, 9186..9377, 9190..9378, 9190..9375, 9472..9561, 9483..9560, 9484..9561, 9637..9831, 9660..9821		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118227	Strand	-
Start	10632	End	10967
Name	OJ000323_19.0420.C26.o4.gp	Method	AAT/GAP
Start	10600	End	10967
GI	1330_1.R1084	Score	600
Exons	10600..10967		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 1.0e-09 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118227	Strand	-
Start	10632	End	10967
Name	OJ000323_19.0420.C26.o5.gs	Method	GENSCAN
Start	10632	End	10907
GI	none	Score	.85
Exons	10632..10907		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118227	Strand	-
Start	10632	End	10967
Name	OJ000323_19.0420.C26.o1.tw	Method	TBLASTX:Wheat
Start	10720	End	10965
GI	none	Score	420
Exons	10720..10965, 10818..10931		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118227	Strand	-
Start	10632	End	10967
Name	OJ000323_19.0420.C26.o2.tc	Method	TBLASTX:Cress
Start	10720	End	10962
GI	none	Score	323
Exons	10720..10962, 10824..10916		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118227	Strand	-
Start	10632	End	10967
Name	OJ000323_19.0420.C26.o2.ts	Method	TBLASTX:Soybean
Start	10722	End	10962
GI	none	Score	369
Exons	10722..10742, 10723..10962, 10821..10928		

Seq. No.	56502	Seq. ID	OJ000323_19.0420.C26
Gene No.	118227	Strand	-
Start	10632	End	10967
Name	OJ000323_19.0420.C26.o2.tm	Method	TBLASTX:Maize
Start	10723	End	10962
GI	none	Score	405
Exons	10723..10962, 10818..10931		

Seq. No.	56503	Seq. ID	OJ000323_19.0420.C27
Gene No.	118228	Strand	-
Start	1	End	4686
Name	OJ000323_19.0420.C27.o1.gp	Method	AAT/GAP
Start	1	End	419
GI	1330_1.R1084	Score	788
Exons	1..419		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 1.0e-09 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	56503	Seq. ID	OJ000323_19.0420.C27
Gene No.	118228	Strand	-
Start	1	End	4686
Name	OJ000323_19.0420.C27.o1.gs	Method	GENSCAN
Start	143	End	4547
GI	none	Score	.58
Exons	143..304, 2625..2697, 3103..3254, 3377..3532, 3653..3959, 4054..4170, 4243..4547		

Seq. No.	56503	Seq. ID	OJ000323_19.0420.C27
Gene No.	118228	Strand	-
Start	1	End	4686
Name	OJ000323_19.0420.C27.o2.gp	Method	AAT/GAP
Start	2199	End	2580
GI	LIB3433-018-Q6-K6-A4	Score	728
Exons	2199..2580		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 1.0e-10 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	56503	Seq. ID	OJ000323_19.0420.C27
Gene No.	118228	Strand	-
Start	1	End	4686
Name	OJ000323_19.0420.C27.o1.np	Method	AAT/NAP
Start	2493	End	4496
GI	7339488	Score	759
Exons	2493..2697, 3103..3254, 3377..3537, 3781..3959, 4054..4170, 4243..4496		
GI Descrip.	(A162459) putative protein [Arabidopsis thaliana]		

Seq. No.	56503	Seq. ID	OJ000323_19.0420.C27
Gene No.	118228	Strand	-

Start	1	End	4686
Name	OJ000323_19.0420.C27.o1.tm	Method	TBLASTX:Maize
Start	2525	End	4098
GI	none	Score	38
Exons	2525..2557, 2589..2711, 2611..2700, 3093..3251, 3094..3249, 3103..3255, 3105..3251, 3351..3533, 3356..3532, 3624..3746, 3648..3770, 3649..3759, 3650..3775, 3650..3772, 3808..3894, 3848..3970, 3867..3959, 4053..4097, 4054..4098		

Seq. No.	56503	Seq. ID	OJ000323_19.0420.C27
Gene No.	118228	Strand	-
Start	1	End	4686
Name	OJ000323_19.0420.C27.o1.tc	Method	TBLASTX:Cress
Start	3848	End	4185
GI	none	Score	66
Exons	3848..3955, 3873..3938, 4053..4169, 4054..4185		

Seq. No.	56503	Seq. ID	OJ000323_19.0420.C27
Gene No.	118228	Strand	-
Start	1	End	4686
Name	OJ000323_19.0420.C27.o3.gp	Method	AAT/GAP
Start	4350	End	4686
GI	none	Score	654
Exons	4350..4686		

Seq. No.	56503	Seq. ID*	OJ000323_19.0420.C27
Gene No.	118228	Strand	-
Start	1	End	4686
Name	OJ000323_19.0420.C27.o2.tm	Method	TBLASTX:Maize
Start	4360	End	4536
GI	none	Score	175
Exons	4360..4494, 4362..4478, 4471..4536		

Seq. No.	56504	Seq. ID	OJ000323_19.0420.C28
Gene No.	118229	Strand	-
Start	151	End	627
Name	OJ000323_19.0420.C28.o1.gs	Method	GENSCAN
Start	151	End	627
GI	none	Score	.66
Exons	151..627		

Seq. No.	56505	Seq. ID	OJ000313_04.0414.C4
Gene No.	118230	Strand	+
Start	119	End	6222
Name	OJ000313_04.0414.C4.o1.gs	Method	GENSCAN
Start	119	End	6178
GI	none	Score	.63
Exons	119..819, 858..1009, 1120..1431, 1699..1952, 2010..2317, 2694..2754, 3117..3356, 3536..4221, 4926..6178		

Seq. No.	56505	Seq. ID	OJ000313_04.0414.C4
Gene No.	118230	Strand	+
Start	119	End	6222
Name	OJ000313_04.0414.C4.o1.gp	Method	AAT/GAP
Start	2305	End	2614
GI	72524_1.R1084	Score	421
Exons	2305..2614		

GI Descrip. '5091496/dbj|AB023482.2|AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'

Seq. No.	56505	Seq. ID	OJ000313_04.0414.C4
Gene No.	118230	Strand	+
Start	119	End	6222
Name	OJ000313_04.0414.C4.o2.np	Method	AAT/NAP
Start	2561	End	6222
GI	7106512	Score	2982
Exons	2561..2620, 2694..2997, 3117..4213, 4761..5466, 5510..5947, 5995..6222		

GI Descrip. (AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118231	Strand	+
Start	1	End	10288
Name	OJ000313_04.0414.C5.o1.np	Method	AAT/NAP
Start	1	End	684
GI	7106512	Score	950
Exons	1..254, 309..684		

GI Descrip. (AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118231	Strand	+
Start	1	End	10288
Name	OJ000313_04.0414.C5.o2.np	Method	AAT/NAP
Start	1	End	3231
GI	5091513	Score	214
Exons	1..92, 296..495, 1209..1563, 3183..3231		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118231	Strand	+
Start	1	End	10288
Name	OJ000313_04.0414.C5.o1.gs	Method	GENSCAN
Start	139	End	738
GI	none	Score	.52
Exons	139..254, 279..371, 410..738		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118231	Strand	+
Start	1	End	10288
Name	OJ000313_04.0414.C5.o2.gs	Method	GENSCAN
Start	1429	End	10288
GI	none	Score	.61
Exons	1429..1582, 3361..6516, 6637..7682, 7893..8176, 9854..9965, 10205..10288		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118231	Strand	+
Start	1	End	10288
Name	OJ000313_04.0414.C5.o2.gp	Method	AAT/GAP
Start	2968	End	3281
GI	72524_1.R1084	Score	417
Exons	2968..3281		

GI Descrip. '5091496/dbj|AB023482.2|AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118231	Strand	+
Start	1	End	10288
Name	OJ000313_04.0414.C5.o3.np	Method	AAT/NAP
Start	5022	End	8198
GI	5902445	Score	1518
Exons	5022..6358, 6394..6453, 6481..8198		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118232	Strand	+
Start	13754	End	24222
Name	OJ000313_04.0414.C5.o4.np	Method	AAT/NAP
Start	13754	End	24222
GI	6630459	Score	71
Exons	13754..13836, 16359..16391, 18353..18658, 24160..24222		
GI Descrip.	(AC007190) F23N19.12 [Arabidopsis thaliana]		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118232	Strand	+
Start	13754	End	24222
Name	OJ000313_04.0414.C5.o3.gp	Method	AAT/GAP
Start	19301	End	19724
GI	none	Score	818
Exons	19301..19724		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118232	Strand	+
Start	13754	End	24222
Name	OJ000313_04.0414.C5.o4.gp	Method	AAT/GAP
Start	20537	End	20909
GI	5667192	Score	720
Exons	20537..20909		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118233	Strand	+
Start	32200	End	32452
Name	OJ000313_04.0414.C5.o6.gp	Method	AAT/GAP
Start	32200	End	32452
GI	4714532	Score	463
Exons	32200..32452		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118234	Strand	+
Start	36012	End	42276
Name	OJ000313_04.0414.C5.o7.gs	Method	GENSCAN
Start	36012	End	42102
GI	none	Score	.49
Exons	36012..36130, 36742..36799, 36884..36976, 37045..37198, 37278..37417, 37735..39134, 39231..39504, 39571..40780, 40835..42102		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118234	Strand	+

Start	36012	End	42276
Name	OJ000313_04.0414.C5.o5.np	Method	AAT/NAP
Start	36836	End	42276
GI	5922631	Score	6285
Exons	36836..37278, 37324..37895, 37938..38089, 38216..39142, 39749..42276		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi 6016864 dbj BAA85207.1 (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118235	Strand	+
Start	47455	End	50412
Name	OJ000313_04.0414.C5.o7.np	Method	AAT/NAP
Start	47392	End	50409
GI	5922620	Score	682
Exons	47392..47430, 47470..47583, 47629..47681, 48276..48447, 48495..48671, 48779..48863, 50279..50409		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1 (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118235	Strand	+
Start	47455	End	50412
Name	OJ000313_04.0414.C5.o9.gs	Method	GENSCAN
Start	47455	End	50412
GI	none	Score	.66
Exons	47455..47583, 47981..48217, 48779..48863, 49470..49584, 49638..49809, 49936..50069, 50253..50412		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118236	Strand	+
Start	50896	End	52683
Name	OJ000313_04.0414.C5.o10.gs	Method	GENSCAN
Start	50896	End	52683
GI	none	Score	.7
Exons	50896..50979, 51982..52069, 52274..52683		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118237	Strand	+
Start	54574	End	55651
Name	OJ000313_04.0414.C5.o8.gp	Method	AAT/GAP
Start	54424	End	55651
GI	none	Score	1699
Exons	54424..54846, 55005..55082, 55243..55651		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118237	Strand	+
Start	54574	End	55651
Name	OJ000313_04.0414.C5.o11.gs	Method	GENSCAN

Start 54574
 GI none
 Exons 54574..54846, 55243..55320

End 55320
 Score .88

Seq. No. 56506
 Gene No. 118238
 Start 61430
 Name OJ000313_04.0414.C5.o14.gs
 Start 61430
 GI none
 Exons 61430..61491, 61819..61950, 62943..63068, 63307..63363, 64256..64382, 65946..66035, 66327..66407, 66551..66682, 67814..68032, 68178..68270, 68492..68653

Seq. ID OJ000313_04.0414.C5
 Strand +
 End 68711
 Method GENSCAN
 End 68653
 Score .74

Seq. No. 56506
 Gene No. 118238
 Start 61430
 Name OJ000313_04.0414.C5.o9.gp
 Start 64089
 GI none
 Exons 64089..64382, 65946..66035, 66327..66407, 66551..66607

Seq. ID OJ000313_04.0414.C5
 Strand +
 End 68711
 Method AAT/GAP
 End 66607
 Score .961

Seq. No. 56506
 Gene No. 118238
 Start 61430
 Name OJ000313_04.0414.C5.o9.np
 Start 65930
 GI 6456167
 Exons 65930..66035, 66327..66407, 66551..66685, 67814..68032, 68178..68270, 68492..68650

Seq. ID OJ000313_04.0414.C5
 Strand +
 End 68711
 Method AAT/NAP
 End 68650
 Score .873

GI Descrip. (AC011622) unknown protein [Arabidopsis thaliana]

Seq. No. 56506
 Gene No. 118238
 Start 61430
 Name OJ000313_04.0414.C5.o10.gp
 Start 67932
 GI none
 Exons 67932..68032, 68178..68270, 68492..68711

Seq. ID OJ000313_04.0414.C5
 Strand +
 End 68711
 Method AAT/GAP
 End 68711
 Score .709

Seq. No. 56506
 Gene No. 118239
 Start 70921
 Name OJ000313_04.0414.C5.o11.gp
 Start 70849
 GI none
 Exons 70849..71302

Seq. ID OJ000313_04.0414.C5
 Strand +
 End 72129
 Method AAT/GAP
 End 71302
 Score .840

Seq. No. 56506
 Gene No. 118239
 Start 70921
 Name OJ000313_04.0414.C5.o15.gs
 Start 70921
 GI none
 Exons 70921..72129

Seq. ID OJ000313_04.0414.C5
 Strand +
 End 72129
 Method GENSCAN
 End 72129
 Score .96

Seq. No. 56506
 Seq. ID OJ000313_04.0414.C5

Gene No.	118240	Strand	-
Start	2971	End	3076
Name	OJ000313_04.0414.C5.o1.gp	Method	AAT/GAP
Start	2971	End	3076
GI	5816518	Score	155
Exons	2971..3076		
GI Descrip.	4521193/dbj AB013450.1 AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118241	Strand	-
Start	10539	End	12165
Name	OJ000313_04.0414.C5.o3.gs	Method	GENSCAN
Start	10539	End	12165
GI	none	Score	.75
Exons	10539..11374, 11484..11673, 11767..12165		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118242	Strand	-
Start	21870	End	28290
Name	OJ000313_04.0414.C5.o5.gs	Method	GENSCAN
Start	21870	End	28192
GI	none	Score	.55
Exons	21870..22010, 23101..23204, 23356..23373, 23375..23457, 23623..23702, 23996..24028, 24698..24762, 27338..27425, 28094..28192		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118242	Strand	-
Start	21870	End	28290
Name	OJ000313_04.0414.C5.o5.gp	Method	AAT/GAP
Start	23780	End	28290
GI	1082.1.R1084	Score	1476
Exons	23780..24028, 24546..24611, 24698..24762, 26957..27020, 27125..27234, 27338..27425, 28094..28290		
GI Descrip.	'1402910/emb CAA66960 1.0e-24 (X98316) peroxidase [Arabidopsis thaliana] >gi_1429223_emb_CAA67550_ (X99096) peroxidase [Arabidopsis thaliana]'		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118243	Strand	-
Start	31141	End	33502
Name	OJ000313_04.0414.C5.o6.gs	Method	GENSCAN
Start	31141	End	33502
GI	none	Score	.56
Exons	31141..31243, 31511..31652, 31708..31795, 32383..32904, 33009..33197, 33275..33502		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118243	Strand	-
Start	31141	End	33502
Name	OJ000313_04.0414.C5.o7.gp	Method	AAT/GAP
Start	32814	End	33189
GI	428783	Score	471
Exons	32814..32904, 33009..33189		
GI Descrip.	1402910/emb CAA66960 1.0e-24 (X98316) peroxidase [Arabidopsis thaliana] >gi_1429223_emb_CAA67550_ (X99096) peroxidase		

[Arabidopsis thaliana]

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118244	Strand	-
Start	42641	End	45572
Name	OJ000313_04.0414.C5.o8.gs	Method	GENSCAN
Start	42641	End	45500
GI	none	Score	.71
Exons	42641..43084, 43607..43806, 43873..44231, 44308..44600, 44688..45500		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118244	Strand	-
Start	42641	End	45572
Name	OJ000313_04.0414.C5.o6.np	Method	AAT/NAP
Start	42653	End	45572
GI	6691716	Score	2463
Exons	42653..43092, 43167..43280, 43430..43532, 43607..43794, 43873..44052, 44129..44231, 44308..44490, 44696..45572		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118245	Strand	-
Start	57368	End	57974
Name	OJ000313_04.0414.C5.o12.gs	Method	GENSCAN
Start	57368	End	57974
GI	none	Score	.81
Exons	57368..57373, 57867..57974		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118246	Strand	-
Start	58910	End	61246
Name	OJ000313_04.0414.C5.o13.gs	Method	GENSCAN
Start	58910	End	61246
GI	none	Score	.93
Exons	58910..61246		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118246	Strand	-
Start	58910	End	61246
Name	OJ000313_04.0414.C5.o8.np	Method	AAT/NAP
Start	58914	End	61234
GI	4558666	Score	739
Exons	58914..61234		
GI Descrip.	(AC007063) putative Na/H antiporter [Arabidopsis thaliana]		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118247	Strand	-
Start	73628	End	77723
Name	OJ000313_04.0414.C5.o16.gs	Method	GENSCAN
Start	73628	End	77723
GI	none	Score	.61
Exons	73628..73744, 73776..73874, 73902..74083, 76393..76450, 76560..76643, 76840..76867, 77665..77723		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o7.ts	Method	TBLASTX:Soybean
Start	3423	End	38937
GI	none	Score	240
Exons	3423..3782, 38572..38667, 38761..38937		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o1.tw	Method	TBLASTX:Wheat
Start	4974	End	39615
GI	none	Score	302
Exons	4974..5387, 5018..5422, 39159..39614, 39160..39615		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o10.ts	Method	TBLASTX:Soybean
Start	5007	End	39564
GI	none	Score	116
Exons	5007..5231, 5238..5372, 39199..39423, 39430..39564		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o6.tm	Method	TBLASTX:Maize
Start	5139	End	39624
GI	none	Score	241
Exons	5139..5432, 5141..5317, 39289..39624, 39330..39623		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o7.tw	Method	TBLASTX:Wheat
Start	5423	End	39933
GI	none	Score	236
Exons	5423..5482, 5424..5741, 39615..39932, 39616..39933		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o4.tm	Method	TBLASTX:Maize
Start	5436	End	40077
GI	none	Score	387
Exons	5436..5864, 5445..5759, 39628..40077, 39642..39689, 39777..39983		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o4.ts	Method	TBLASTX:Soybean
Start	5583	End	40209
GI	none	Score	384
Exons	5583..6062, 5882..6043, 6042..6113, 39808..40209, 39825..39968, 40005..40175		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o2.tw	Method	TBLASTX:Wheat
Start	5790	End	40407
GI	none	Score	140
Exons	5790..6038, 6057..6194, 39972..40388, 39978..40187, 39979..40407		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o9.ts	Method	TBLASTX:Soybean
Start	6201	End	40823
GI	none	Score	124
Exons	6201..6338, 6408..6446, 40435..40539, 40443..40529, 40575..40823, 40579..40821		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o5.tw	Method	TBLASTX:Wheat
Start	6240	End	40866
GI	none	Score	79
Exons	6240..6332, 6494..6649, 6585..6713, 40444..40866, 40449..40793		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o12.tw	Method	TBLASTX:Wheat
Start	6954	End	41181
GI	none	Score	70
Exons	6954..7073, 40882..41016, 41083..41181		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o3.tm	Method	TBLASTX:Maize
Start	7086	End	41502
GI	none	Score	202
Exons	7086..7385, 41178..41501, 41179..41502		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o3.tw	Method	TBLASTX:Wheat
Start	7086	End	41573
GI	none	Score	183
Exons	7086..7361, 41182..41343, 41184..41495, 41185..41571, 41380..41571, 41526..41573		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o6.ts	Method	TBLASTX:Soybean
Start	7227	End	41700
GI	none	Score	245
Exons	7227..7616, 7328..7543, 41371..41535, 41614..41700		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o4.tw	Method	TBLASTX:Wheat
Start	7710	End	42300
GI	none	Score	87
Exons	7710..7856, 7884..8027, 8052..8189, 41685..41795, 41686..42177, 41836..41865, 41847..41975, 42169..42300		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o11.ts	Method	TBLASTX:Soybean
Start	7761	End	41970
GI	none	Score	190
Exons	7761..7988, 41893..41970		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o10.tm	Method	TBLASTX:Maize
Start	7884	End	42261
GI	none	Score	95
Exons	7884..8021, 8073..8150, 41998..42180, 42054..42179, 42159..42260, 42160..42261		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o8.ts	Method	TBLASTX:Soybean
Start	18053	End	18520
GI	none	Score	100
Exons	18053..18166, 18220..18318, 18221..18361, 18395..18520, 18421..18516		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o9.tm	Method	TBLASTX:Maize
Start	18074	End	18309
GI	none	Score	126
Exons	18074..18175, 18074..18199, 18076..18210, 18114..18200, 18185..18289, 18194..18307, 18205..18309		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o8.tm	Method	TBLASTX:Maize
Start	23925	End	28201
GI	none	Score	108
Exons	23925..24032, 23987..24028, 24069..24095, 24493..24615, 24546..24611, 24697..24762, 24698..24745, 24702..24764, 26952..27023, 26959..27021, 27107..27262, 27126..27236, 27336..27425, 27336..27470, 27337..27426, 28083..28193, 28094..28192, 28097..28201		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o4.tc	Method	TBLASTX:Cress
Start	23979	End	28195
GI	none	Score	81
Exons	23979..24032, 24546..24611, 24698..24745, 24699..24764, 26952..27023, 26959..27021, 27107..27262, 27126..27236, 27336..27470, 27337..27426, 28083..28193, 28094..28195,		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o5.ts	Method	TBLASTX:Soybean
Start	23979	End	28223
GI	none	Score	83
Exons	23979..24032, 24493..24612, 24546..24611, 24698..24745, 24702..24764, 26952..27023, 26959..27021, 27107..27262, 27120..27209, 27133..27225, 27336..27470, 27337..27426, 28083..28223, 28094..28198		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o10.tw	Method	TBLASTX:Wheat
Start	24546	End	27203
GI	none	Score	92
Exons	24546..24611, 24547..24612, 24548..24613, 24698..24745, 24699..24764, 26939..27022, 26952..27041, 26959..27021, 27084..27203, 27120..27185, 27122..27202		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o1.tc	Method	TBLASTX:Cress
Start	32353	End	33331
GI	none	Score	79
Exons	32353..32676, 32360..32701, 32653..32835, 32687..32773, 32813..32878, 32836..32904, 33009..33203, 33013..33198, 33275..33331, 33276..33326		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o1.ts	Method	TBLASTX:Soybean
Start	32398	End	33331
GI	none	Score	72
Exons	32398..32676, 32561..32701, 32653..32835, 32687..32836, 32834..32905, 32836..32931, 33015..33203, 33016..33198, 33275..33331, 33279..33326		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o9.tw	Method	TBLASTX:Wheat
Start	32671	End	33307

GI	none	Score	97
Exons	32671..32904, 32711..32902, 33009..33149, 33013..33069, 33278..33307		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o5.tm	Method	TBLASTX:Maize
Start	32687	End	33201
GI	none	Score	40
Exons	32687..32758, 32689..32901, 32780..32902, 32997..33200, 33016..33201		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o8.tw	Method	TBLASTX:Wheat
Start	37500	End	37902
GI	none	Score	268
Exons	37500..37604, 37501..37902		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o6.tw	Method	TBLASTX:Wheat
Start	38515	End	38916
GI	none	Score	358
Exons	38515..38916, 38577..38900		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o13.tm	Method	TBLASTX:Maize
Start	38790	End	38967
GI	none	Score	188
Exons	38790..38936, 38791..38967		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o12.tm	Method	TBLASTX:Maize
Start	40498	End	40770
GI	none	Score	120
Exons	40498..40668, 40672..40770		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o14.tm	Method	TBLASTX:Maize
Start	41643	End	41916
GI	none	Score	99
Exons	41643..41750, 41644..41742, 41733..41807, 41740..41820, 41830..41916		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175

Name	OJ000313_04.0414.C5.o11.tw	Method	TBLASTX:Wheat
Start	45198	End	45452
GI	none	Score	203
Exons	45198..45452		
Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o2.tm	Method	TBLASTX:Maize
Start	59647	End	60073
GI	none	Score	71
Exons	59647..59688, 59648..59881, 59649..59834, 59675..59860, 59858..59953, 59895..59954, 59936..60067, 59952..60014, 59963..60073		
Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o11.tm	Method	TBLASTX:Maize
Start	66324	End	67948
GI	none	Score	129
Exons	66324..66410, 66326..66418, 66546..66680, 66550..66684, 66551..66679, 67814..67948, 67823..67948		
Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o3.tc	Method	TBLASTX:Cress
Start	67819	End	68653
GI	none	Score	283
Exons	67819..68034, 67823..68032, 68163..68270, 68166..68279, 68486..68653, 68486..68611, 68491..68649		
Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o12.ts	Method	TBLASTX:Soybean
Start	68223	End	68653
GI	none	Score	81
Exons	68223..68279, 68486..68530, 68531..68653, 68539..68646		
Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o1.tm	Method	TBLASTX:Maize
Start	70962	End	71358
GI	none	Score	684
Exons	70962..71357, 70963..71358		
Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o2.tc	Method	TBLASTX:Cress
Start	70968	End	71394
GI	none	Score	376
Exons	70968..71321, 70969..71325, 71320..71394, 71346..71390		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o3.ts	Method	TBLASTX:Soybean
Start	70981	End	71325
GI	none	Score	427
Exons	70981..71325, 70983..71216, 71215..71325		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o2.ts	Method	TBLASTX:Soybean
Start	71575	End	72063
GI	none	Score	234
Exons	71575..71835, 71830..72063, 71839..72063		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o5.tc	Method	TBLASTX:Cress
Start	71755	End	72063
GI	none	Score	59
Exons	71755..71835, 71854..72063, 71854..72045		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o7.tm	Method	TBLASTX:Maize
Start	71758	End	72142
GI	none	Score	90
Exons	71758..71871, 71833..72066, 71861..72142, 71888..72064, 71976..72068		

Seq. No.	56506	Seq. ID	OJ000313_04.0414.C5
Gene No.	118248	Strand	-
Start	77835	End	78175
Name	OJ000313_04.0414.C5.o12.gp	Method	AAT/GAP
Start	77835	End	78175
GI	none	Score	622
Exons	77835..78175		

Seq. No.	56507	Seq. ID	OJ000313_04.0414.C6
Gene No.	118249	Strand	-
Start	942	End	2468
Name	OJ000313_04.0414.C6.o2.tm	Method	TBLASTX:Maize
Start	509	End	1620
GI	none	Score	63
Exons	509..556, 510..551, 1322..1426, 1324..1431, 1326..1454, 1329..1445, 1331..1453, 1521..1610, 1564..1620		

Seq. No.	56507	Seq. ID	OJ000313_04.0414.C6
Gene No.	118249	Strand	-
Start	942	End	2468
Name	OJ000313_04.0414.C6.o1.gs	Method	GENSCAN
Start	942	End	2352
GI	none	Score	.85
Exons	942..1043, 1915..1986, 2190..2352		

Seq. No.	56507	Seq. ID	OJ000313_04.0414.C6
Gene No.	118249	Strand	-
Start	942	End	2468
Name	OJ000313_04.0414.C6.ol.np	Method	AAT/NAP
Start	1309	End	2468
GI	7487160	Score	265
Exons	1309..1453, 1524..1619, 1691..1807, 1915..1986, 2190..2468		
GI Descrip.	hypothetical protein T19C21.18 - Arabidopsis thaliana gi 3395439 gb AAC28771.1 (AC004683) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56507	Seq. ID	OJ000313_04.0414.C6
Gene No.	118249	Strand	-
Start	942	End	2468
Name	OJ000313_04.0414.C6.ol.tm	Method	TBLASTX:Maize
Start	2144	End	2354
GI	none	Score	90
Exons	2144..2242, 2179..2241, 2231..2353, 2250..2354		

Seq. No.	56508	Seq. ID	OJ000313_04.0414.C7
Gene No.	118250	Strand	-
Start	1	End	1060
Name	OJ000313_04.0414.C7.ol.np	Method	AAT/NAP
Start	1	End	1060
GI	7485953	Score	254
Exons	1..213, 563..693, 911..1060		
GI Descrip.	hypothetical protein F22I13.150 - Arabidopsis thaliana gi 4539346 emb CAB37494.1 (AL035539) putative protein [Arabidopsis thaliana] gi 7270822 emb CAB80503.1 (AL161593) putative protein [Arabidopsis thaliana]		

Seq. No.	56509	Seq. ID	OJ000313_04.0414.C9
Gene No.	118251	Strand	+
Start	1	End	1360
Name	OJ000313_04.0414.C9.ol.gs	Method	GENSCAN
Start	1	End	1249
GI	none	Score	.72
Exons	1..112, 397..447, 846..922, 1001..1249		

Seq. No.	56509	Seq. ID	OJ000313_04.0414.C9
Gene No.	118251	Strand	+
Start	1	End	1360
Name	OJ000313_04.0414.C9.ol.np	Method	AAT/NAP
Start	1	End	1246
GI	3935157	Score	935
Exons	1..281, 723..922, 1001..1246		
GI Descrip.	(AC005106) T25N20.21 [Arabidopsis thaliana]		

Seq. No.	56509	Seq. ID	OJ000313_04.0414.C9
Gene No.	118251	Strand	+
Start	1	End	1360
Name	OJ000313_04.0414.C9.o2.ts	Method	TBLASTX:Soybean
Start	1	End	155
GI	none	Score	182
Exons	1..135, 1..153, 3..155, 12..155		

Seq. No.	56509	Seq. ID	OJ000313_04.0414.C9
Gene No.	118251	Strand	+
Start	1	End	1360
Name	OJ000313_04.0414.C9.o2.tm	Method	TBLASTX:Maize
Start	12	End	336
GI	none	Score	313
Exons	12..299, 12..245, 172..336, 190..333		

Seq. No.	56509	Seq. ID	OJ000313_04.0414.C9
Gene No.	118251	Strand	+
Start	1	End	1360
Name	OJ000313_04.0414.C9.o1.ts	Method	TBLASTX:Soybean
Start	159	End	1259
GI	none	Score	82
Exons	159..269, 168..266, 172..273, 388..453, 730..804, 735..809, 735..815, 830..919, 835..918, 851..928, 995..1249, 998..1216, 1018..1248, 1152..1259		

Seq. No.	56509	Seq. ID	OJ000313_04.0414.C9
Gene No.	118251	Strand	+
Start	1	End	1360
Name	OJ000313_04.0414.C9.o1.tm	Method	TBLASTX:Maize
Start	247	End	1296
GI	none	Score	47
Exons	247..273, 388..453, 396..446, 715..804, 729..827, 733..813, 735..839, 796..918, 833..922, 834..917, 835..918, 851..928, 989..1291, 1001..1252, 1003..1260, 1012..1296		

Seq. No.	56509	Seq. ID	OJ000313_04.0414.C9
Gene No.	118251	Strand	+
Start	1	End	1360
Name	OJ000313_04.0414.C9.o1.tw	Method	TBLASTX:Wheat
Start	751	End	1250
GI	none	Score	76
Exons	751..822, 754..804, 756..830, 759..830, 796..918, 832..918, 833..922, 854..928, 1001..1246, 1012..1248, 1152..1250		

Seq. No.	56509	Seq. ID	OJ000313_04.0414.C9
Gene No.	118251	Strand	+
Start	1	End	1360
Name	OJ000313_04.0414.C9.o1.tc	Method	TBLASTX:Cress
Start	787	End	1251
GI	none	Score	67
Exons	787..921, 787..918, 854..928, 1001..1249, 1003..1251, 1036..1248		

Seq. No.	56509	Seq. ID	OJ000313_04.0414.C9
Gene No.	118251	Strand	+
Start	1	End	1360
Name	OJ000313_04.0414.C9.o1.gp	Method	AAT/GAP
Start	863	End	1360
GI	17247_2.R1084	Score	752
Exons	863..922, 1001..1360		
GI Descrip.	'4521193/dbj AB013450.1 AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	56510	Seq. ID	OJ000313_04.0414.C10
Gene No.	118252	Strand	+

Start	82	End	543
Name	OJ000313_04.0414.C10.o1.tm	Method	TBLASTX:Maize
Start	64	End	267
GI	none	Score	51
Exons	64..105, 151..267, 154..255		

Seq. No.	56510	Seq. ID	OJ000313_04.0414.C10
Gene No.	118252	Strand	+
Start	82	End	543
Name	OJ000313_04.0414.C10.o1.gs	Method	GENSCAN
Start	82	End	543
GI	none	Score	.92
Exons	82..543		

Seq. No.	56511	Seq. ID	OJ000313_04.0414.C11
Gene No.	118253	Strand	-
Start	1	End	1428
Name	OJ000313_04.0414.C11.o1.np	Method	AAT/NAP
Start	1	End	1428
GI	4836907	Score	426
Exons	1..99, 1079..1428		
GI Descrip.	(AC007153) Highly similar to putative callose synthase catalytic subunit [Arabidopsis thaliana]		

Seq. No.	56511	Seq. ID	OJ000313_04.0414.C11
Gene No.	118253	Strand	-
Start	1	End	1428
Name	OJ000313_04.0414.C11.o2.tm	Method	TBLASTX:Maize
Start	2	End	1127
GI	none	Score	96
Exons	2..91, 3..86, 11..94, 813..878, 829..882, 928..1008, 939..1010, 942..1010, 952..1011, 1092..1121, 1092..1127		

Seq. No.	56511	Seq. ID	OJ000313_04.0414.C11
Gene No.	118253	Strand	-
Start	1	End	1428
Name	OJ000313_04.0414.C11.o1.tc	Method	TBLASTX:Cress
Start	822	End	1311
GI	none	Score	38
Exons	822..878, 823..882, 951..1010, 952..1008, 1092..1190, 1092..1250, 1096..1233, 1248..1307, 1249..1311		

Seq. No.	56511	Seq. ID	OJ000313_04.0414.C11
Gene No.	118253	Strand	-
Start	1	End	1428
Name	OJ000313_04.0414.C11.o1.tm	Method	TBLASTX:Maize
Start	1150	End	1427
GI	none	Score	181
Exons	1150..1320, 1152..1307, 1292..1426, 1308..1427, 1310..1426		

Seq. No.	56512	Seq. ID	OJ000313_04.0414.C12
Gene No.	118254	Strand	-
Start	1	End	2576
Name	OJ000313_04.0414.C12.o1.np	Method	AAT/NAP
Start	1	End	2576
GI	4836907	Score	1100
Exons	1..131, 343..433, 550..626, 731..856, 1346..1472, 1562..1653,		

1753..1845, 1945..2061, 2149..2232, 2315..2576
 GI Descrip. (AC007153) Highly similar to putative callose synthase catalytic
 subunit [Arabidopsis thaliana]

Seq. No.	56512	Seq. ID	OJ000313_04.0414.C12
Gene No.	118254	Strand	-
Start	1	End	2576
Name	OJ000313_04.0414.C12.o1.gs	Method	GENSCAN
Start	340	End	2259
GI	none	Score	.93
Exons	340..433, 550..653, 731..868, 1346..1472, 1562..1653, 1945..2061, 2149..2259		

Seq. No.	56512	Seq. ID	OJ000313_04.0414.C12
Gene No.	118254	Strand	-
Start	1	End	2576
Name	OJ000313_04.0414.C12.o2.tc	Method	TBLASTX:Cress
Start	1338	End	1478
GI	none	Score	105
Exons	1338..1478, 1343..1474		

Seq. No.	56512	Seq. ID	OJ000313_04.0414.C12
Gene No.	118254	Strand	-
Start	1	End	2576
Name	OJ000313_04.0414.C12.o1.tw	Method	TBLASTX:Wheat
Start	1343	End	1883
GI	none	Score	140
Exons	1343..1474, 1343..1471, 1560..1649, 1561..1650, 1561..1662, 1745..1870, 1750..1863, 1761..1883		

Seq. No.	56512	Seq. ID	OJ000313_04.0414.C12
Gene No.	118254	Strand	-
Start	1	End	2576
Name	OJ000313_04.0414.C12.o1.tc	Method	TBLASTX:Cress
Start	1807	End	2244
GI	none	Score	85
Exons	1807..1869, 1939..2070, 1942..2070, 2134..2244, 2146..2244		

Seq. No.	56512	Seq. ID	OJ000313_04.0414.C12
Gene No.	118254	Strand	-
Start	1	End	2576
Name	OJ000313_04.0414.C12.o1.ts	Method	TBLASTX:Soybean
Start	1807	End	2413
GI	none	Score	73
Exons	1807..1848, 1942..2064, 1942..2064, 2146..2262, 2146..2262, 2336..2413, 2373..2411		

Seq. No.	56513	Seq. ID	OJ000313_04.0414.C14
Gene No.	118255	Strand	+
Start	1	End	893
Name	OJ000313_04.0414.C14.o1.np	Method	AAT/NAP
Start	1	End	893
GI	4836907	Score	318
Exons	1..36, 282..410, 513..638, 756..893		
GI Descrip.	(AC007153) Highly similar to putative callose synthase catalytic subunit [Arabidopsis thaliana]		

Seq. No.	56513	Seq. ID	OJ000313_04.0414.C14
Gene No.	118255	Strand	+
Start	1	End	893
Name	OJ000313_04.0414.C14.o1.ts	Method	TBLASTX:Soybean
Start	278	End	823
GI	none	Score	147
Exons	278..412, 301..411, 506..586, 602..637, 604..636, 751..822, 752..823		

Seq. No.	56513	Seq. ID	OJ000313_04.0414.C14
Gene No.	118255	Strand	+
Start	1	End	893
Name	OJ000313_04.0414.C14.o1.tm	Method	TBLASTX:Maize
Start	347	End	844
GI	none	Score	87
Exons	347..439, 349..408, 484..633, 509..634, 513..638, 752..829, 754..822, 758..844		

Seq. No.	56514	Seq. ID	OJ000313_04.0414.C16
Gene No.	118256	Strand	-
Start	1	End	3388
Name	OJ000313_04.0414.C16.o1.np	Method	AAT/NAP
Start	1	End	2805
GI	6729487	Score	231
Exons	1..703, 2742..2805		
GI Descrip.	(AL132966) putative protein [Arabidopsis thaliana]		

Seq. No.	56514	Seq. ID	OJ000313_04.0414.C16
Gene No.	118256	Strand	-
Start	1	End	3388
Name	OJ000313_04.0414.C16.o1.gs	Method	GENSCAN
Start	29	End	1076
GI	none	Score	.88
Exons	29..424, 499..1076		

Seq. No.	56514	Seq. ID	OJ000313_04.0414.C16
Gene No.	118256	Strand	-
Start	1	End	3388
Name	OJ000313_04.0414.C16.o2.np	Method	AAT/NAP
Start	1428	End	3388
GI	7413555	Score	839
Exons	1428..2456, 3201..3388		
GI Descrip.	(AL162973) protein kinase-like [Arabidopsis thaliana]		

Seq. No.	56514	Seq. ID	OJ000313_04.0414.C16
Gene No.	118256	Strand	-
Start	1	End	3388
Name	OJ000313_04.0414.C16.o2.gs	Method	GENSCAN
Start	1479	End	2573
GI	none	Score	.92
Exons	1479..2573		

Seq. No.	56514	Seq. ID	OJ000313_04.0414.C16
Gene No.	118257	Strand	-
Start	3987	End	4330
Name	OJ000313_04.0414.C16.o2.tc	Method	TBLASTX:Cress
Start	119	End	504

GI	none	Score	80
Exons	119..301, 124..402, 124..237, 157..492, 331..504, 409..504		

Seq. No.	56514	Seq. ID	OJ000313_04.0414.C16
Gene No.	118257	Strand	-
Start	3987	End	4330
Name	OJ000313_04.0414.C16.o3.tm	Method	TBLASTX:Maize
Start	124	End	507
GI	none	Score	119
Exons	124..429, 149..334, 163..408, 163..498, 403..507		

Seq. No.	56514	Seq. ID	OJ000313_04.0414.C16
Gene No.	118257	Strand	-
Start	3987	End	4330
Name	OJ000313_04.0414.C16.o1.tc	Method	TBLASTX:Cress
Start	1536	End	2462
GI	none	Score	101
Exons	1536..1715, 1704..1745, 1800..2042, 1888..2043, 2086..2343, 2139..2342, 2355..2462, 2359..2409		

Seq. No.	56514	Seq. ID	OJ000313_04.0414.C16
Gene No.	118257	Strand	-
Start	3987	End	4330
Name	OJ000313_04.0414.C16.o1.tm	Method	TBLASTX:Maize
Start	1540	End	2454
GI	none	Score	102
Exons	1540..1689, 1545..1712, 1704..1745, 1797..2123, 1885..2124, 2154..2342, 2158..2340, 2361..2453, 2368..2454		

Seq. No.	56514	Seq. ID	OJ000313_04.0414.C16
Gene No.	118257	Strand	-
Start	3987	End	4330
Name	OJ000313_04.0414.C16.o1.ts	Method	TBLASTX:Soybean
Start	1542	End	2457
GI	none	Score	98
Exons	1542..1721, 1546..1707, 1800..2123, 1810..1974, 2023..2100, 2127..2342, 2158..2340, 2346..2456, 2359..2457		

Seq. No.	56514	Seq. ID	OJ000313_04.0414.C16
Gene No.	118257	Strand	-
Start	3987	End	4330
Name	OJ000313_04.0414.C16.o1.tw	Method	TBLASTX:Wheat
Start	1800	End	2118
GI	none	Score	117
Exons	1800..2042, 1888..1974, 1968..2039, 2074..2118		

Seq. No.	56514	Seq. ID	OJ000313_04.0414.C16
Gene No.	118257	Strand	-
Start	3987	End	4330
Name	OJ000313_04.0414.C16.o2.tw	Method	TBLASTX:Wheat
Start	2226	End	2444
GI	none	Score	89
Exons	2226..2339, 2230..2343, 2352..2444, 2353..2436		

Seq. No.	56514	Seq. ID	OJ000313_04.0414.C16
Gene No.	118257	Strand	-

Start	3987	End	4330
Name	OJ000313_04.0414.C16.o2.tm	Method	TBLASTX:Maize
Start	3959	End	4314
GI	none	Score	40
Exons	3959..4015, 3960..4058, 4060..4191, 4064..4198, 4065..4202, 4077..4199, 4181..4303, 4191..4313, 4191..4313, 4192..4314		

Seq. No.	56514	Seq. ID	OJ000313_04.0414.C16
Gene No.	118257	Strand	-
Start	3987	End	4330
Name	OJ000313_04.0414.C16.o3.gs	Method	GENSCAN
Start	3987	End	4330
GI	none	Score	.78
Exons	3987..4330		

Seq. No.	56515	Seq. ID	OJ000313_04.0414.C17
Gene No.	118258	Strand	+
Start	892	End	3896
Name	OJ000313_04.0414.C17.o1.tm	Method	TBLASTX:Maize
Start	1	End	329
GI	none	Score	100
Exons	1..159, 3..158, 145..312, 151..252, 156..260, 247..288, 294..329		

Seq. No.	56515	Seq. ID	OJ000313_04.0414.C17
Gene No.	118258	Strand	+
Start	892	End	3896
Name	OJ000313_04.0414.C17.o1.gs	Method	GENSCAN
Start	892	End	3896
GI	none	Score	.41
Exons	892..956, 1410..1501, 2198..2285, 3193..3375, 3706..3751, 3834..3896		

Seq. No.	56515	Seq. ID	OJ000313_04.0414.C17
Gene No.	118258	Strand	+
Start	892	End	3896
Name	OJ000313_04.0414.C17.o1.gp	Method	AAT/GAP
Start	1266	End	2438
GI	9262_1.R1084	Score	1156
Exons	1266..1716, 1840..1890, 2198..2285, 2375..2438		
GI Descrip.	'4539332 emb CAB37480.1 2.0e-26 (AL035539) glycosyltransferase like protein (fragment) [Arabidopsis thaliana]'		

Seq. No.	56515	Seq. ID	OJ000313_04.0414.C17
Gene No.	118258	Strand	+
Start	892	End	3896
Name	OJ000313_04.0414.C17.o1.np	Method	AAT/NAP
Start	1648	End	3896
GI	7485947	Score	311
Exons	1648..1716, 1840..1894, 2202..2285, 2375..2451, 3296..3375, 3706..3751, 3834..3896		
GI Descrip.	hypothetical protein F22I13.10 - Arabidopsis thaliana (fragment) gi 4539332 emb CAB37480.1 (AL035539) glycosyltransferase like protein (fragment) [Arabidopsis thaliana]		

Seq. No.	56516	Seq. ID	OJ000313_04.0414.C18
Gene No.	118259	Strand	+
Start	1	End	1659

Name	OJ000313_04.0414.C18.o1.np	Method	AAT/NAP
Start	1	End	1651
GI	5764049	Score	742
Exons	1..31, 151..240, 327..395, 483..552, 655..716, 802..896, 983..1072, 1211..1273, 1372..1410, 1481..1651		
GI Descrip.	(Y16832) alpha-1,3-mannosyl-glycoprotein beta-1,2-N-acetylglucosaminyltransferase [Nicotiana tabacum]		

Seq. No.	56516	Seq. ID	OJ000313_04.0414.C18
Gene No.	118259	Strand	+
Start	1	End	1659
Name	OJ000313_04.0414.C18.o1.gs	Method	GENSCAN
Start	100	End	1651
GI	none	Score	.68
Exons	100..160, 327..395, 972..1072, 1372..1410, 1481..1651		

Seq. No.	56516	Seq. ID	OJ000313_04.0414.C18
Gene No.	118259	Strand	+
Start	1	End	1659
Name	OJ000313_04.0414.C18.o1.tm	Method	TBLASTX:Maize
Start	173	End	1653
GI	none	Score	109
Exons	173..241, 174..263, 314..394, 319..402, 328..396, 458..553, 473..562, 640..714, 653..715, 659..715, 801..896, 801..902, 955..1071, 977..1072, 980..1072, 1210..1266, 1211..1276, 1369..1410, 1372..1449, 1379..1438, 1463..1651, 1480..1653, 1480..1653		

Seq. No.	56516	Seq. ID	OJ000313_04.0414.C18
Gene No.	118259	Strand	+
Start	1	End	1659
Name	OJ000313_04.0414.C18.o1.tc	Method	TBLASTX:Cress
Start	176	End	1000
GI	none	Score	95
Exons	176..238, 177..263, 314..394, 331..402, 473..562, 477..551, 652..714, 653..715, 792..896, 980..1000		

Seq. No.	56516	Seq. ID	OJ000313_04.0414.C18
Gene No.	118259	Strand	+
Start	1	End	1659
Name	OJ000313_04.0414.C18.o1.ts	Method	TBLASTX:Soybean
Start	180	End	1653
GI	none	Score	95
Exons	180..263, 182..238, 314..394, 331..402, 473..562, 479..550, 652..714, 653..715, 781..891, 789..899, 792..893, 982..1071, 983..1072, 1210..1275, 1211..1276, 1372..1443, 1478..1651, 1480..1653, 1564..1653		

Seq. No.	56516	Seq. ID	OJ000313_04.0414.C18
Gene No.	118259	Strand	+
Start	1	End	1659
Name	OJ000313_04.0414.C18.o1.gp	Method	AAT/GAP
Start	810	End	1659
GI	3305_1.R1084	Score	647
Exons	810..896, 982..1072, 1211..1273, 1372..1410, 1481..1659		
GI Descrip.	'5764049/emb CAB53347.1 1.0e-33 (Y16832) alpha-1,3-mannosyl-glycoprotein		

beta-1,2-N-acetylglucosaminyltransferase [Nicotiana tabacum]

Seq. No.	56517	Seq. ID	OJ000313_04.0414.C19
Gene No.	118260	Strand	-
Start	1	End	990
Name	OJ000313_04.0414.C19.o1.gp	Method	AAT/GAP
Start	1	End	815
GI	3444994	Score	829
Exons	1..197, 511..815		

Seq. No.	56517	Seq. ID	OJ000313_04.0414.C19
Gene No.	118260	Strand	-
Start	1	End	990
Name	OJ000313_04.0414.C19.o1.gs	Method	GENSCAN
Start	99	End	848
GI	none	Score	.86
Exons	99..197, 511..600, 698..848		

Seq. No.	56517	Seq. ID	OJ000313_04.0414.C19
Gene No.	118260	Strand	-
Start	1	End	990
Name	OJ000313_04.0414.C19.o1.tm	Method	TBLASTX:Maize
Start	102	End	990
GI	none	Score	109
Exons	102..194, 103..198, 109..198, 508..609, 509..601, 515..628, 695..859, 699..845, 699..869, 706..846, 935..988, 948..989, 948..989, 949..990, 949..990		

Seq. No.	56518	Seq. ID	OJ000313_04.0414.C20
Gene No.	118261	Strand	+
Start	514	End	710
Name	OJ000313_04.0414.C20.o1.np	Method	AAT/NAP
Start	514	End	710
GI	4836907	Score	195
Exons	514..710		
GI Descrip.	(AC007153) Highly similar to putative callose synthase catalytic subunit [Arabidopsis thaliana]		

Seq. No.	56518	Seq. ID	OJ000313_04.0414.C20
Gene No.	118262	Strand	-
Start	573	End	710
Name	OJ000313_04.0414.C20.o1.tm	Method	TBLASTX:Maize
Start	336	End	673
GI	none	Score	112
Exons	336..494, 339..467, 340..471, 501..671, 555..671, 556..672, 557..673		

Seq. No.	56518	Seq. ID	OJ000313_04.0414.C20
Gene No.	118262	Strand	-
Start	573	End	710
Name	OJ000313_04.0414.C20.o1.ts	Method	TBLASTX:Soybean
Start	557	End	710
GI	none	Score	228
Exons	557..709, 558..710		

Seq. No.	56518	Seq. ID	OJ000313_04.0414.C20
Gene No.	118262	Strand	-

Start	573	End	710
Name	OJ000313_04.0414.C20.ol.gs	Method	GENSCAN
Start	573	End	697
GI	none	Score	.76
Exons	573..697		

Seq. No.	56519	Seq. ID	OJ000313_04.0414.C21
Gene No.	118263	Strand	+
Start	1	End	1177
Name	OJ000313_04.0414.C21.ol.np	Method	AAT/NAP
Start	1	End	1168
GI	4836907	Score	445
Exons	1..148, 681..800, 872..990, 1085..1168		
GI Descrip.	(AC007153) Highly similar to putative callose synthase catalytic subunit [Arabidopsis thaliana]		

Seq. No.	56519	Seq. ID	OJ000313_04.0414.C21
Gene No.	118263	Strand	+
Start	1	End	1177
Name	OJ000313_04.0414.C21.ol.gs	Method	GENSCAN
Start	557	End	1168
GI	none	Score	.55
Exons	557..705, 1085..1168		

Seq. No.	56519	Seq. ID	OJ000313_04.0414.C21
Gene No.	118263	Strand	+
Start	1	End	1177
Name	OJ000313_04.0414.C21.ol.ts	Method	TBLASTX:Soybean
Start	680	End	1177
GI	none	Score	178
Exons	680..802, 681..806, 871..921, 872..934, 911..997, 937..990, 1067..1177, 1068..1169, 1070..1177		

Seq. No.	56519	Seq. ID	OJ000313_04.0414.C21
Gene No.	118263	Strand	+
Start	1	End	1177
Name	OJ000313_04.0414.C21.ol.tm	Method	TBLASTX:Maize
Start	689	End	1166
GI	none	Score	143
Exons	689..769, 690..770, 693..830, 864..983, 866..988, 871..984, 871..990, 872..997, 1067..1165, 1068..1166		

Seq. No.	56519	Seq. ID	OJ000313_04.0414.C21
Gene No.	118263	Strand	+
Start	1	End	1177
Name	OJ000313_04.0414.C21.ol.tc	Method	TBLASTX:Cress
Start	690	End	988
GI	none	Score	179
Exons	690..803, 692..802, 720..812, 869..979, 870..962, 871..987, 872..988		

Seq. No.	56520	Seq. ID	OJ000323_05.0419.C2
Gene No.	118264	Strand	+
Start	646	End	763
Name	OJ000323_05.0419.C2.ol.np	Method	AAT/NAP
Start	646	End	763
GI	7406391	Score	77

Exons 646..763
GI Descrip. (AL162873) putative protein [Arabidopsis thaliana]

Seq. No.	56521	Seq. ID	OJ000323_05.0419.C3
Gene No.	118265	Strand	-
Start	1	End	301
Name	OJ000323_05.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	286
GI	7452474	Score	82

Exons 1..25, 118..286
GI Descrip. hypothetical protein T5C23.100 - Arabidopsis thaliana
gi|4539458|emb|CAB39938.1| (AL049500) hypothetical protein
[Arabidopsis thaliana] gi|7267867|emb|CAB78210.1| (AL161532)
hypothetical protein [Arabidopsis thaliana]

Seq. No.	56521	Seq. ID	OJ000323_05.0419.C3
Gene No.	118265	Strand	-
Start	1	End	301
Name	OJ000323_05.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	107	End	301
GI	none	Score	92
Exons	107..301, 120..233, 128..292		

Seq. No.	56521	Seq. ID	OJ000323_05.0419.C3
Gene No.	118265	Strand	-
Start	1	End	301
Name	OJ000323_05.0419.C3.o1.gs	Method	GENSCAN
Start	118	End	293
GI	none	Score	.89
Exons	118..293		

Seq. No.	56522	Seq. ID	OJ000323_05.0419.C14
Gene No.	118266	Strand	+
Start	1	End	677
Name	OJ000323_05.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	677
GI	7485844	Score	152
Exons	1..449, 627..677		
GI Descrip.	hypothetical protein F20D10.140 - Arabidopsis thaliana gi 4467108 emb CAB37542.1 (AL035538) hypothetical protein [Arabidopsis thaliana] gi 7270785 emb CAB80467.1 (AL161592) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	56522	Seq. ID	OJ000323_05.0419.C14
Gene No.	118266	Strand	+
Start	1	End	677
Name	OJ000323_05.0419.C14.o1.gs	Method	GENSCAN
Start	170	End	677
GI	none	Score	.4
Exons	170..449, 627..677		

Seq. No.	56523	Seq. ID	OJ000323_05.0419.C16
Gene No.	118267	Strand	-
Start	9	End	1521
Name	OJ000323_05.0419.C16.o1.gs	Method	GENSCAN
Start	9	End	1481
GI	none	Score	.44

Exons 9..130, 677..807, 1256..1346, 1447..1481

Seq. No. 56523 Seq. ID OJ000323_05.0419.C16
Gene No. 118267 Strand -
Start 9 End 1521
Name OJ000323_05.0419.C16.o1.gp Method AAT/GAP
Start 739 End 1521
GI 11159 1.R1084 Score 426
Exons 739..807, 1256..1346, 1447..1521
GI Descrip. '2264315/dbj|AB005243.1|AB005243 5.0e-11 Arabidopsis thaliana
genomic DNA, chromosome 5, P1 clone: MRN17, complete sequence'

Seq. No. 56524 Seq. ID OJ000323_05.0419.C26
Gene No. 118268 Strand +
Start 567 End 849
Name OJ000323_05.0419.C26.o1.gs Method GENSCAN
Start 567 End 849
GI none Score .81
Exons 567..849

Seq. No. 56524 Seq. ID OJ000323_05.0419.C26
Gene No. 118268 Strand +
Start 567 End 849
Name OJ000323_05.0419.C26.o1.np Method AAT/NAP
Start 649 End 805
GI 7363271 Score 116
Exons 649..805
GI Descrip. (AP001552) hypothetical protein [Oryza sativa]

Seq. No. 56525 Seq. ID OJ000323_05.0419.C45
Gene No. 118269 Strand +
Start 60 End 1065
Name OJ000323_05.0419.C45.o1.np Method AAT/NAP
Start 60 End 1065
GI 7430747 Score 155
Exons 60..280, 791..859, 994..1065
GI Descrip. ferredoxin [2Fe-2S] II - Synechocystis sp. (strain PCC 6803)
gi|1653333|dbj|BAA18248.1| (D90912) ferredoxin [Synechocystis
sp.]

Seq. No. 56525 Seq. ID OJ000323_05.0419.C45
Gene No. 118269 Strand +
Start 60 End 1065
Name OJ000323_05.0419.C45.o1.gp Method AAT/GAP
Start 191 End 257
GI LIB3432-040-P1-K1-B5 Score 112
Exons 191..257
GI Descrip. '1653333/dbj|BAA18248| 7.0e-16 (D90912) ferredoxin
[Synechocystis sp.]'

Seq. No. 56525 Seq. ID OJ000323_05.0419.C45
Gene No. 118270 Strand +
Start 1241 End 1711
Name OJ000323_05.0419.C45.o2.gp Method AAT/GAP
Start 1241 End 1711
GI none Score 594
Exons 1241..1295, 1390..1711

Seq. No.	56525	Seq. ID	OJ000323_05.0419.C45
Gene No.	118271	Strand	+
Start	1937	End	2227
Name	OJ000323_05.0419.C45.o1.gs	Method	GENSCAN
Start	1937	End	2227
GI	none	Score	.41
Exons	1937..2227		

Seq. No.	56526	Seq. ID	OJ000323_05.0419.C69
Gene No.	118272	Strand	+
Start	52	End	279
Name	OJ000323_05.0419.C69.o1.gs	Method	GENSCAN
Start	52	End	279
GI	none	Score	.81
Exons	52..279		

Seq. No.	56526	Seq. ID	OJ000323_05.0419.C69
Gene No.	118273	Strand	-
Start	1	End	801
Name	OJ000323_05.0419.C69.o1.np	Method	AAT/NAP
Start	1	End	801
GI	1903347	Score	100
Exons	1..24, 539..640, 736..801		
GI Descrip.	(AC000104) EST gb ATTS5672 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	56526	Seq. ID	OJ000323_05.0419.C69
Gene No.	118273	Strand	-
Start	1	End	801
Name	OJ000323_05.0419.C69.o1.tm	Method	TBLASTX:Maize
Start	532	End	801
GI	none	Score	113
Exons	532..609, 539..643, 539..643, 690..797, 734..799, 735..797, 736..801, 736..801		

Seq. No.	56527	Seq. ID	OJ000313_05.0419.C1
Gene No.	118274	Strand	+
Start	1	End	518
Name	OJ000313_05.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	518
GI	7485953	Score	186
Exons	1..152, 369..518		
GI Descrip.	hypothetical protein F22I13.150 - Arabidopsis thaliana gi 4539346 emb CAB37494.1 (AL035539) putative protein [Arabidopsis thaliana] gi 7270822 emb CAB80503.1 (AL161593) putative protein [Arabidopsis thaliana]		

Seq. No.	56527	Seq. ID	OJ000313_05.0419.C1
Gene No.	118274	Strand	+
Start	1	End	518
Name	OJ000313_05.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	19	End	509
GI	none	Score	223
Exons	19..153, 20..154, 23..154, 396..509, 396..467, 401..502		

Seq. No.	56528	Seq. ID	OJ000313_05.0419.C3
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Gene No.	118275	Strand	+
Start	1	End	717
Name	OJ000313_05.0419.C3.ol.np	Method	AAT/NAP
Start	1	End	717
GI	2598067	Score	474
Exons	1..717		
GI Descrip.	(AJ001486) Ser/Thr protein kinase [Zea mays]		

Seq. No.	56529	Seq. ID	OJ000313_05.0419.C4
Gene No.	118276	Strand	-
Start	192	End	2162
Name	OJ000313_05.0419.C4.ol.gp	Method	AAT/GAP
Start	192	End	829
GI	16421 1.R1084	Score	969
Exons	192..596, 716..829		
GI Descrip.	'3075402 6.0e-12 (AC004484) unknown protein [Arabidopsis thaliana]'		

Seq. No.	56529	Seq. ID	OJ000313_05.0419.C4
Gene No.	118276	Strand	-
Start	192	End	2162
Name	OJ000313_05.0419.C4.ol.tw	Method	TBLASTX:Wheat
Start	378	End	1846
GI	none	Score	37
Exons	378..434, 379..435, 445..600, 452..616, 455..625, 531..641, 693..755, 712..756, 756..851, 757..852, 1784..1846, 1785..1829		

Seq. No.	56529	Seq. ID	OJ000313_05.0419.C4
Gene No.	118276	Strand	-
Start	192	End	2162
Name	OJ000313_05.0419.C4.ol.gs	Method	GENSCAN
Start	454	End	2128
GI	none	Score	.78
Exons	454..596, 716..850, 1783..2128		

Seq. No.	56529	Seq. ID	OJ000313_05.0419.C4
Gene No.	118276	Strand	-
Start	192	End	2162
Name	OJ000313_05.0419.C4.ol.np	Method	AAT/NAP
Start	463	End	1837
GI	3075402	Score	259
Exons	463..596, 716..850, 1783..1837		
GI Descrip.	(AC004484) unknown protein [Arabidopsis thaliana]		

Seq. No.	56529	Seq. ID	OJ000313_05.0419.C4
Gene No.	118276	Strand	-
Start	192	End	2162
Name	OJ000313_05.0419.C4.ol.tm	Method	TBLASTX:Maize
Start	463	End	1846
GI	none	Score	132
Exons	463..600, 466..624, 467..625, 693..851, 711..848, 712..852, 712..852, 713..856, 1784..1846, 1785..1829		

Seq. No.	56529	Seq. ID	OJ000313_05.0419.C4
Gene No.	118276	Strand	-
Start	192	End	2162
Name	OJ000313_05.0419.C4.ol.ts	Method	TBLASTX:Soybean